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SFUND RECORDS CTR 88041269

SFUND RECORDS CTR 0639-02595

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Invoices & Correspondence

Invoice number 192006 January 31, 1992 Page number 1

89007.02 TORRANCE CA/PHASE II CONTAMINATION ASSESSMENT

COCA: COLA ENTERPRISES DEL DeBILZAN ONE COCA COLA PLAZA NW 752 ATLANTA BA 30313

PORTUNE T		

DIRECT ABOR:

PROJECT ENGINEER/BEOLOGIST

DAVID IDIER S REVIEW RECOR

CLERICAL SEVICES

ANN CASE CLERICAL 1+17-92

Direct Lai

17.50 34.50

Invoice Total:

Project Billing Summary DIRECT LABOR: REIMBURSABLE EXPENSES:

447.50 54.45

Total 442.00

451.85

54.45

Total

U.S. Technical Environmental Consulting Inc. 097 080002 1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Fax: 602-529-6315

Project: \$9007.01 TORRANCE CA/PHASE I SITE ASSESSMENT

- Invoice No. 111019 11-36-91 Date Page number : 3 3 4 4

COCA COLA ENTERPRISES ONE COCA COLA PLAZA NW 752 ATLANTA BA 30313

ED TODD

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ENVIRONMENTAL ENGINEERING SERVICES CLIENT PURCHASE ORDER 46112

DIRECT LABOR:

Date

.∋,Amou

PRINCIPAL/DITRICT HANAGER

STEVE NYEN PROJECT ANAGEMENT

CLERICAL STRVICES

MENDY HIN CLERICAL PROGRESS EPORTS

7.50

327.50

argee:

327.50

Project Billing Summary

DIRECT LABOR:

Totals.

100

327.50

327 . 50

327.50

Approved By

TERMS: NET 30 DAYS

U.S. Technical Environmental Consulting Inc. Tempe, Arizona 85282

1414 West Broadway Road, Saile 150 Phone: 602-823-6811

Pax: 602-829-6315

Page number

COCA COLA ENTERPRISES ONE COCA COLA PLAZA NW 752 ATLANTA BASS 30313

ED TODO

ENVIRONMENTAL ENGINEERING SERVICES

CLIENT PURCHASE ORDER 96112

REINBURSABLE EXPENSES:

Cost Multiplier

Amou

FEDERAL EXP ESS/DELIVERY 12003/111

11-15-91

FEDERAL EXPRESS/DELIVE

DIRECT ABOR: REIMBURGABLE EXPENSES: Total:

497.50

54.45

461.95

poproved By

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Phone: 602-829-6311

150 Tempe, Arizona 85282 Pax: 602-829-6315 007 00000

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Minvoleo 5. 101109 Date 1 700-31-91 Poroenumbor 11

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US. Reinfeil Anthonomial Comulting Inc.

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CONTAMINATION ASSESSMENT

Page number

COCA COLA ENTERPRISES ONE COCA COLA PLAZA WH 742 ATLANTA BA

ED TODD

ENVIRONMENTAL ENGINEERING SERVICES

CLIENT PURCHASE ORDER \$6021

Amoun DIRECT LABORS HOUT CLERICAL SERVECES SANDRA COLLANGS 1.50 CLERICAL 52.50 Direct Labor Total: 52.50 Project 8111 y Summary Total 227.50 52.50 175.00 DIRECT CHOR! 227.50 62.50 175.00 Total: Approved By

TERMS .. NET 30 DAYS

U.S. Technical Environmental Consulting, Inc. 1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Phone: 602-829-6311 Fac: 602-829-6315

Projectal 89007-02 TORRANCE CA/PHASE II CONTAMINATION ASSESSMENT

Invoice No. 391088 Date 3-29-91 Page number 1

COCA COLA ENTERPRISES ONE COCA COLA PLAZA NW 752 ATLANTA GA 30313

- ED TODD

ENVIRONMENTAL ENGINEERING SERVICES

CLIENT PURCHASE ORDER \$5182

SERVICES RENDERED: PRINCIPAL/DISTRICT MANAGER STEVE NYER 3-04-91 120.00 REPORT PREPARATION 2.00 SR. PROJECT MOR/SR. CONSULTANT ROWLAND HELL VENDOR CONTRACT PREPAREVIEW 50 110.00 Servaces ! Current Charges: Project Billing Summery Prior Current SERVICES RENDERED: 175.00 175.00 175.00 Totals ÐÓ Approved by

TERMS: NET 15 DAYS

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 017 00007 Phone: 602-829-6311 Fax: 602-829-6315

Project: 89807-00 TORRANCE CA

Involce No. 191043 Date 1-31-91 Page number 1

COCA COLATENTERPRISES ONE COCA COLA PLAZA NW 752 ATLANTA GA 36313

EO TODO

ENVIRONMENTAL ENGINEERING SERVICES

CLIENT PURCHASE ORDER 45120

RAUL RAMIREZ AUTHORIZED BY: BERVICES RENDERED: Amount Hours Rate SENIOR PROJECT MANAGER 47.50 ROWLAND HALL -. 60 1-07-91 RECORDS REVIEW 47.60 47.50 Services Total 47.50 corrent Charges: project Gilling Summery Total Curront prior 37.393.65 . 47.50 37,346.16 SERVICES RENDERED 4.177.08 .00 4,177.08 Roimburgable Expanses 41.570.73 47.50 41.623.23 LOCOLV approved

TERMS NET 15 DAYS

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85.
Phone: 602-829-6311 Fax: 602-829-6315

Project: 89007-00 TORRANCE CA

Invoice No. 901131 Date 11-30-90 Page number 1

COCA COLA ENTERPRISES ONE COCA COLA PLAZA NW 752 ATLANTA GA 36313

ED TODO

ENVIRONMENTAL ENGINEERING SERVICES CLIENT PURCHASE ORDER #3863

AUTHORIZED BY	RAUL RANTREZ			
SERVICES REN MEDI				
		urs Rate	Amesint/	
PRINCIPAL/D RECTOR-IN-C NYLE LAY N REPORT P EPARATION	11-01-9	50	55.00	
STEVE MYER REPORT PREPARATION	T T GR.	2.00 110.00	220.00	
STAFF ENGINEER/GEOLOGIS RICHARD BYRD COORDINATION/ HEDULI RECORDS REVIEW			55.00 27.50	
CLERICAL SERVICES				
CLERICAL	11-1	.50 35.00	17.50	
	Services Total	4.50	375.00	375.00
Reimbursable Expenses	Defe	Cost Multiplie	r Amount	
FEDERAL EXPRESS/DELIVE	11-02-90	ESS DELIVERY total		
		∍imbursable total:		49.80

TERMS: NET 15 DAYS

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282
P 602-829-6311 Parc 602-829-631

nvoice No. 901131 Date 11-30-90

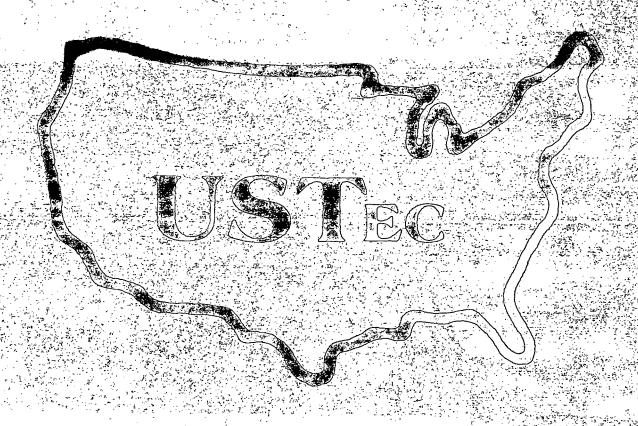
Current Charges

424.80

Project Billing Summary

Prior Current Total
SERVICES RENDERED: 3,060.50 375.00 3,435.50
Reimbursable Expenses 4,127.28 49.80 4,177.88
Total: 7,187.78 424.80 7,612.58

Approved By ML



TERMS: NET 16 DAYS

U.S. Technical Environmental Consulting, Inc. 1414 West Broadway Road, Suite 150 Tempe, Arizona 85282. Phone: 602-829-6311 Fax: 602-829-6315

Page number

COCA COLA BOTTLING 1334 SOUTH CENTRAL AVE. OS ANGELES CA 98821

RAUL RANTREZ

environhental engineering serv

	AUTHORIZED BY					
SERVICES	REN RED:					
			ete (a)	e Rate	unt	
STEVE M	L/C RECTOR-IN-	CHARGE				
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		se v	otal 6.1		666 00	660.00
Reimburs	ebal AExpenses	Date	Cost	Multiplier	nount	
	EXPRES OFLIVE	والمحرورة والمسترات والمست				
	-85778 /34163	12-12-9		4.200	75.36 18.60	
135			EXPRESS/DELJ	ble total	93.96	93.96
					Charges	753.96

Project Billing Summary

SERVICES RENDERED: Reimburgable Expenses 93.96 4,127.28 753.96

U.S. Technical Environmental Consulting Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Phone: 602-829-6311 Fax: 602-829-6315

89007-00 TORRANCE CA

Invoice No. 900857

Page number

COCA COLA BOTTLING COMPANY LOS ANGELES 1334 SOUTH CENTRAL AVE. LOS ANGELES CA 90021

RAUL RAMIREZ

ENVIRONMENTAL ENGINEERING SERVICES

	AUTHORIZED	BY: RAUL	RAMIREZ				
SERVICES	RE BRED						
STAPP KN	GIASER/GEOLO	ATET		purs	Bate	Assuns	
RICHARD	YRD						
SAMPLE	REPARATION		7-24-1		55.00	.50	
Reinburs	ab Expense		VASBB TOF B	.50		7.50	27.50
			Dat	0 TE/	ultiplie	r A s bunt	
ANALYTI	CAL CAMISTR	Y LAB SER	7-31-90			1,104.00	
TRAVEL	EXPENSES		8-02-90 CAL CHEMIST				
			90 TRA		1.200 SES total	38.33	
PHOTOGR.	APHS/MAPS		7-24-90	10.16	4.200	12.19	
ी करिए की			1.5 Table 1.5 Ta	'OGRAPHS/M Leimbursab		12.19 3.464.52	3,464.52
			· · · · · · · · · · · · · · · · · · ·				

U.S. Technical Environmental Consulting Inc.

1414 West Broadway Road, Suite 150. Tempe, Arizon Phone: 602-829-6311 Fac: 602-829-6315

Tempe, Arizona 85282

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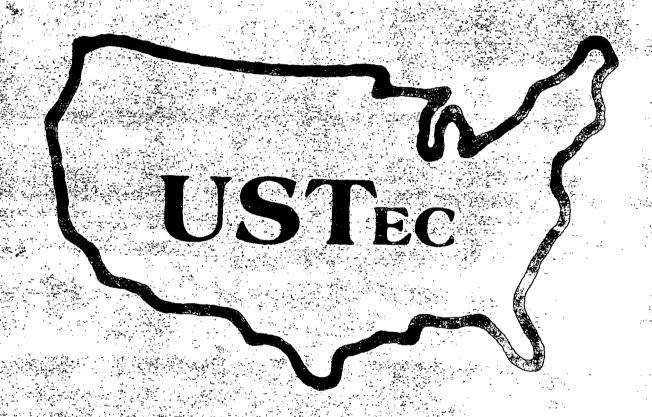
Project: 89007-00 T MANCE CA

Invoice No. 900857 Date 8-30-90 Page number

Project Billing Summary

Prior Current Total SERVICES RENDERED: 2.373.00 27.50 2.400.50 Beimbursable Expenses 568.80 3,464.52 4,033.32 - Total: 2.941.80 3,492,02 6.433.82

Approved By



NET 15 DAYS

U.S. Technical Environmental Consulting Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Pt = 602-829-6311 Fax: 602-829-631!

White/Client Blue/Accounting Pink/File

89007-00 TORRANCE CA

COCA COLA BOTTLING COMPANY LOS ANGELES 1334 SOUTH CENTRAL AVE. LOS ANGELES CA 90021

RAUL RAMIREZ

ENVIRONMENTAL ENGINEERING SERVICES

	AUTHORIZED I	BY: RAUL RA	MIREZ			
CHRITAN	puller.					
DERVICE	S RE DERED		Date	Dura Ra		
						2 4 4
PRINCIP	AL TRECTOR-14	N-CHARGE				
NYLE L	AYON					
PROJEC	CTMANAGEMENT		6-28-90	1.00 110.		J. 00
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STEVE 1						
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and the state of t						
RICHARI MISCRI	LLANEOUS SAME	THO STATE OF THE S	6-28-90	50 55.		OTAR A
SITE I	reconna i sbanci	1	6-27-90	.5		27.50 27.50
MAKE I	ready/clean ui		6-27-90	55.0	. A.1 160	82.50
			6-28-9	.50 55.0 .50 55.0	V 12-10-10-1	27.50 27.50
Sample	E PREPARATION		6-2	. 50 55.0)0	27.50
REPORT	PREPARATION		6-29-90 7-02-90	.50 55.(.50 55.(27.50
REPORT	r review	Michigan Challes	6-27-90	1.00 55.0		27.50 55.00
TRAVEI	L'C(AIR)		6-27-90	1.60 65.0	的意志	82.50
EQUIPM	MENT CALIBRATI	ON	6-29-90 6-27-90	2.00 55.0 .50 55.0		10.00 27.50
SITE	rem soil ex	CAV/REMOVAL	6-28-90	8.00 55.0		10.00
THAVEL	TIME (OTHER)		6-27-90	1.50 55.0) 0	82.60

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Phone: 602-829-6311 Fax: 602-829-6315

89007-00 T-RANCE CA

Page number 2

SERVICES RENDE	8130	0.40	lours Rate	A	
CLERICAL SERVI	enter de la cristière, de Ces		Pott		
WENDY HINES CLERICAL		6-26-90	30 35.00	10.50	
DRAFTSPERSON					
DRAFTING ACCOUNT MANAGEMENT		8-27-90	1.00 35.00	86.00	
BETH MILLE ADMINIST TI	VE SERVICES	6-26-90	1.00 6.00	67.50	
Reinbursa de E			24.80	1,480	1,460.50
OVN, PID			ost Hultipli	er Abount	
NILEAGE, PER		5	ALD tota		
TRAVEL EXPENS	ES	MILBAGE, §-29-90 27	PER MILE tota 8.85	30.40	
JOB SUPPLIES		8-29-1	9.64 1.200	35.57	
			SUPPLIES tota ursable total	500.59	
			Curre	nt Charges:	1.961.09
Project Billin	g Sumary	Prior	Current	Total	

912.50 68.21

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282
Phone: 602-829-6311 Fac: 602-829-6315

SERVICES RENDERED:

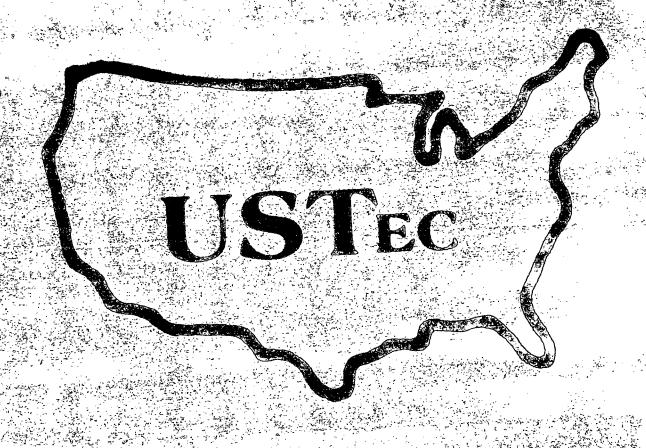
Reimbursable Expenses

1,961.09

1,460.50 2,373.00 500.59 568.80

Invoice No. 900593 7-31-90 Date Page number

Approved By



TERMS: NET 15 DAYS

U.S. Technical Environmental Consulting, Inc. 1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Phone 602-829-6311 Fex: 602-829-6315

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Invoice No. 900436 6-30-90 Date Page number RECA COLA BOTTE INTERPREDICANALS TELEPHONE STATE OF THE PROPERTY OF APPORTUNITE OF THE PORTU SERVICES KE ERED Rate RINCIPAL TRECTOR-IN-CHARGE NYLE LAY ON 1.00 110.00 5.00 SITE RECONNAISSANCE 1.00 110:00 0.00 SAMPLE P EPARATION IR) 2.00-110:00 00 TRAVEL HE (OTHER) TRAVEL T .00 STEVE MYER COORDINATION SCHEDULING 6-21-90 1.00 110.00 10.00 6-22-90 1.00 110.00 110.00 CLERICAL SERVICES WENDY HINES 17.50 35.00 **CLERICAL** 50- 35.00 17.50 50 35.00 17.50 LYNDA KOGUTKIEWICZ 50 35.00 Reimbunsache Amount 52.61 WERMS NET 15 DAYS U.S. Technical Environmental Consulting Inc.

Tempe, Arizma 85282

Trivoice No. 900436 Date 6-30-90 Page number 2

Reimbursable Expenses

Date Cost Multiplier Amount

6-15-90 10.00 1.200 15.60 FEDERAL EXPRESS/DELIVERY total 68:21

Permbursable cotal: 68.21 68.2

Current Charges: 980.71

Project Billing Summary

SERV SEL: 0 912.50 912.0

Reimbrable Expens 68.21 921

Total: 00 980.71 90.7

Approved By INC

TERMS: NET 15 DAYS

U.S. Technical Environmental Consulting, Inc.

1414 West Broadway Road, Suite 150 Tempe, Arizona 85282 Phone: 602-829-6311 Page: 602-829-6315

Walte/Client Blue/Accounting Pink/File



Coca Cola Bottling Company Los Angeles 1334 S. Central Ave. Los Angles. CA 90021

Attn: Raul Ramirez

DATE:

04-29-90

INVOICE:

90-0160

PROJECT:
JOB NUMBER:

TORRANCE CA 89007

P.O. NUMBER:

WORK PERFORMED:3/17-4/06/90

Page 1 of 1

DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	
PROGRESS REPORTS	0.4	110.00	44.00	=
SITE REM./SYSTEM INTSTALL	22.0	75.00	1,650.00	
SAMPLE PREPARATION	5 . Õ	75.00	375.00	
TRAVEL TIME	4.0	75.00	300.00	
REMEDIATION ENGINEERING	4.0	75.00	300.00	
CLERICAL/ADMINISTRATION	3 .9	35. 00	136.50	
FEDERAL EXPRESS	1.0	14.40	14.40	
AIRFARE	1.0	477.00	477.00	
JOB SUPPLIES	1.0	9.82	9.82	
TRAVEL EXPENSES	1.0	78.00	78.00	
INVOICE TOTAL:			\$3.384.72	

REVIEWED BY: STEVE MYERS



Coca Cola Bottling Company Los Angeles 1334 South Central Ave. Los Angeles CA 90021

Attn: Raul Ramirez

DATE:

3/30/90

INVOICE:

90-0120 TORRANCE CA

PROJECT:
JOB NUMBER:

89007

P.O. NUMBER:

WORK PERFORMED:2/19-3/12/90

Page 1 of 1

DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
PROGRESS REPORTS	0.6	110.00	66.00
CONSULTATION	1.0	410.40	410.40
CLERICAL/ADMINISTRATIVE	4.0	35.00	140.00
FEDERAL EXPRESS	1.0	24.30	24.30
ANALYTICAL CHEMISTRY LAB	1.0	6487.20	6,487.20
TRAVEL EXPENSE	1.0	93.87	93.87
JOB SUPPLIES	1.0	2.28	2.28
TOTAL INVOICE:			\$7,224,05

REVIEWED BY: STEVE MYERS



Coca Cola Bottling Co.

Los Angeles

1334 South Central Ave

Los Angeles, CA 90021

Attn: Raul Ramirez

DATE:

2/27/90

INVOICE:

90-0048

PROJECT:

TORRANCE CA 89007

JOB NUMBER:

P.O. NUMBER: WORK PERFORMED:1/8-2/9/90

R RAMIREZ

Page 1 of 1

DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
REPORT PREPARATION	1.5	110.00	165.00
PROGRESS REPORTS	0.3	110.00	33.00
MAKE READY/CLEAN UP	° 4.0	75.00	300.00
REMEDIATION DESIGN/ENG.	5.0	75.00	375.00
TRAVEL TIME	2.0	75.00	150.00
CLERICAL/ADMINISTRATIVE	4.9	35.00	171.50
FEDERAL EXPRESS	1.0	27.90	27.90
ANALYTICAL CHEMISTRY LAB	1.0	540.00	540.00
AIRFARE	1.0	299.20	299.20
TRAVEL EXPENSES	1.0	157.60	157.60
SUPPLIES	1.0	9.95	9.95
INVOICE TOTAL:			\$2 229 15

REVIEWED BY: PETER BEAVER



Los Ang 1334 Sou	a Bottling Company Jeles Jith Central Ave Jes, CA 90021	INVOICE PROJECT JOB NUMBER Work Performed	TOR 890	
Attn: R	Raul Ramirez			
7.0	Report Review, per hour	\$110.00	\$	770.00
.16	Progress Reports	110.00		17.60
7.0	Report Review, per hour	95.00		665.00
6.0	Remediation Design/Engineering	95.00		570.00
1.6	Progress Reports	95.00		152.00
32.0	Report Preparation	95.00		3040.00
6.0	Report Preparation	75.00		450.00
9.0	Report Review	75.00		675.00
2.0	Remediation Design/Engineering	75.00		150.00
11.0	Drafting	35.00		385.00
15.7	Clerical/Administration	35.00		549.50
1.0	Permitting and Topographics	2546.47		2546.47
1.0	Airfare	300.00		300.00
	INVOICE TOTAL:		\$ 1	0.270.57





Coca Co	la Bottling Company	INVOICE	89-054 12-2-89
Los Ang		PROJECT	TORRANCE CALIFORNIA
1334 S.	Central Ave.	JOB NUMBER	89007
Los Ang	eles, CA 90021	Work Performed	from 11/04-11/22/89
Attn:	Raul Ramirez		
.4	Progress Reports, per hour	\$110.00	\$ 44.00
2.0	Report Review	110.00	220.00
.3	Report Review	95.00	28.50
.2	Progress Reports	95.00	19.00
20.0	Remediation Design/Engineering	95.00	1900.00
30.0	Report Preparation	75.00	2250.00
7.9	Clerical/Administration	35.00	276.50
1.0	Analytical Chemistry Lab Services	1230.00	1230.00
-			

TERMS: NET DUE UPON RECEIPT

INVOICE TOTAL:

\$5,958.00

US Techn al Environmental Consula g, Inc.

Los Ang 1334 S.	ola Bottling Company geles Central Ave geles, CA 90021	INVOICE PROJECT JOB NUMBER Work Perfo	89-002 11-06-89 TORRANCE CALIFORNIA 89007 rmed from 10/23-11/03/89
Attn:	Raul Ramirez		
27.0	Excavating & Sampling, per hour	\$75.00	\$2025.00
1.5	Consultation, per hour	95.00	142.50
54.0	Mileage, per mile	•40	21.60
1.0	Airfare	288.00	288.00
:1.0	Travel Expenses	393.39	393•39
1.0	Job Supplies	30.67	30.67
	INVOICE TOTAL:		\$2, 901 . 16

Ed De

1414 WEST BROADWAY ROAD SUITE 150 TEMPE ARIZONA 85282 (602) 829-6311

Los Ang	ola Bottling Company geles Central Ave geles, CA 90021	INVOICE PROJECT JOB NUMBER Work Perfor	89-002 11-06-89 TORRANCE CALIFORNIA 89007 rmed from 10/23-11/03/89
Attn:	Raul Ramirez		
27.0	Excavating & Sampling, per hour	\$ 75.00	\$ 2025 . 00
1.5	Consultation, per hour	95.00	142.50
54.0	Mileage, per mile	•40	21.60
1.0	Airfare	288.00	288.00
:1⊌0	Travel Expenses	393.39	393•39
1.0	Job Supplies	30.67	30.67
	INVOICE TOTAL:		\$2,901.16

Ed Du

1414 WEST BROADWAY ROAD SUITE 150 TEMPE ARIZONA 85282 (602) 829-6311

	WESTERN TECHNOLOGIES INC.
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PU	RC	IASE	ORE	DER

All Documents Must Refer to Purchase Order Number

Voucher No.			Date Req'd	D					Del Mar Qualytica, 18102 Sty Park South Irvine, CA 92714 Jose Syes No Price Quoted By: Gary	
Vendor No.	Asset No.	Function	Job	Dept.	Account No.	Amount	Unit Price	Quantity	Description	m
W.T. Pay Date						L Comment	75	Ī	TPHC 418,1	T
Invoice No.										
Invoice Date						Large 1 of miniates				
Invoice Amount										
Use Tax										
Freight Charges on Out of State \$				ļ						
Discount -\$								_		L
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All Documents Must Refer
to Purchase Order Number

PURCHASE ORDER

²rice Quote: □	Yes □ No Price Quoted By:		Dept. No. 2/7 Date 9-/2-89 Freight. □ FOB Destination □ FOB Shipping Point □ Prepaid □ Collect Via						Voucher No.	
ship To			Attn:				Date Req'd			
Item	Description	Quantity	Unit Price	Amount	Account No.	Dept.	Job	Function	Asset No.	Vendor No.
.57	rveyor									W.T. Pay Date
J U. 2	1009.00									Invoice No.
	· · · · · · · · · · · · · · · · · · ·				<u> </u>					Invoice Date
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EQUIPMENT CO.

P.O. BOX 4830 Long Beach, CA 90804 Phones 433-1948

General Engineer License A-527194 Hazardous Substances Removal Certification

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LEDSAM EQUIPMENT CO.

P.O. BOX 4330 Long Beach, CA 90304 General Engineer License A-527194 Phone: 433-1948 434-4152

Hazardous Substances Removal Certification CUSTOMER PURCHASE ORDER NO. CUSTOMER JOB NO. OPERATOR NO. OVERTIME WORK TRAVEL TIME WATER TANK USED GENERATOR USED outside Hado Building asea unit eos AMOUNT CODE NO. **AMOUNT** TYPE OF WORK PERFORMED

WE ASSUME NO REPSONSIBILTY FOR LAYOUT AND/OR DAMAGES AS THE RESULT OF. TERMS: NET 30 days Payment is due upon presentation of invoice. If any invoice is not paid in full within 30 days after its billing date, the Customer hereby agrees to pay interest at the rate of 10% per annum upon the unpaid portion of the invoice. If action or suit is brought by Stu LEDSAM to collect any amount due or owing under this bill. Customer agrees to pay all costs of collection including reasonable attorney's fees.

EQUIPMENT CO.

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P.O. BOX 4830 Long Beach, CA 90304 General Engineer License A-527194

438-1948 434-2152 **Phone:**

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P.O. BOX 4830 Long Beach, CA 90304 General Engineer License A-527194 Hazardous Substances Removal Certification

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P.O. BOX 4330 Long Boach, CA 90304 General Engineer License A-527194 Hazardous Substances Removal Certification

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WE ASSUME NO REPSONSIBILYY FOR LAYOUT AND/OR DAMAGES AS THE RESULT OF.
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P.O. BOX 4330
Long Beach, CA 90304
General Engineer License A-527194
Hazardous Substances Removal Certification

Phone: 433-1943 434-4152

DATE: 9 /20 /89

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P.O. BOX 4330
Long Beach, CA 90304
General Engineer License A-527194
Hazardous Substances Removal Certification

Phone: 433-1943 434-4152

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P.O. BOX 4830 Long Beach, CA 90304 General Engineer License A-527194 Hazardous Substances Removal Certification Phone: 433-1943 434-4152

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WE ASSUME NO REPSONSIBILTY FOR LAYOUT AND/OR DAMAGES AS THE RESULT OF.
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P.O. BOX 4830
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General Engineer License A-527194
Hazardous Substances Removal Certification

Phone: 433-1943 434-4152

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P.O. BOX 4330 Long Beach, CA 90304 General Engineer License A-527194 Hazardous Substances Removal Certification Phone: 433-1943 434-4152

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P.O. BOX 4830 Long Beach, CA 90804 General Engineer License A-527194 Phone: 433-1943

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P.O. BOX 4330 Long Beach, CA 90304 General Engineer License A-527194 Hazardous Substances Removal Certification Phone: 433-1943 434-4152

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General Engineer License A-527194
Hazardous Substances Removal Certification

Phone: 433-1943 434-4152

DATE: 9 /26 /89

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U.S. Technical Environmental Consulting, Inc.

June 14, 1991

Mr. David R. Hargis Hargis and Associates, Inc. 2223 Avenida De La Playa, Suite 300 La Jolla, California 92037

RE: CHANGE IN PROJECT MANAGEMENT, COCA-COLA ENTERPRISES, INC. FACILITY, CARSON, CALIFORNIA. USTEC JOB NO. 89007

Dear Mr. Hargis:

This letter is to inform you of a change in project management for the Coca-Cola Enterprises Inc. facility located in Carson, California. Mr. Pete Beaver is no longer with U.S. Technical Environmental Consulting, Inc. Please direct all future correspondence to Mr. Rowland L. Hall.

If you should have any questions regarding this matter, please do not hesitate to call Mr. Rowland Hall or myself at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Steven M. Myers, R.G.

President

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WORL PROCESSING L'QUEST

Today's Date:	6-12-91 . Myers	Due Date:Promised Report Date:	
Job #: <u>890</u>	07	Title: <u>Letter</u>	
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Completed By:	S. Collings 6-14-91		
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WORD PROCESSING REQUEST

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Completed By: L. Kagutkiew	ICZ
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May 14, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE. REMOVAL OF CONTAMINATED SOIL. JOB NO. 89007.

Dear Mr. Ramirez:

Enclosed please find the copies of the Non-Hazardous Waste Data Forms used in the transportation of soil from the Carson project located at 19875 Pacific Gateway Drive, Carson, California. Also, please find enclosed copies of the weight tickets and tickets representing the rental of the loader. In summary, a total of 1628.38 tons was transported to Brent Petroleum Corporation located at 1008 South Cervera Avenue, Wilmington, California.

On Wednesday, March 28, 1990, the work was initiated. The soil was loaded onto end-dump type trucks using a 980C loader. The loader had a bucket capacity of 4 yards and could load a truck in approximately three minutes. After each truck was loaded the load was covered with a tarp. The truck then proceeded to the recycling facility mentioned above. The empty trucks returned to the site for additional loads. In total, six trucks were used to transport the material.

On Thursday, March 29, 1990, the remaining soil was transported to the recycling facility. Brent Petroleum is invoicing you directly for the disposal of the materials and has also provided you with a certificate of reuse for the material. Copies are attached. Please contact us if you have any questions or comments.

Sincerely

U.S. TECHNICAL ENVIRONMENTAL CONSULTING

Peter A. Beaver Manager Remediation Services

Steven M. Myers, R.G. President

Copy to: Ed Todd, CCE - Atlanta



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

October 9, 1989

Ms. Terry Ahn
R. R. Donnelly & Sons
19681 Pacific Gateway Drive
Torrance, California 90502

Dear Ms. Ahn:

RE: 19875 PACIFIC GATEWAY DRIVE, COCA-COLA SITE. JOB NO. 2179J286.

In reference to our conversation of September 29, 1989 concerning the subject site which is adjacent to your facility on the South, I have enclosed a copy of a letter from the California Department of Health Services (DOHS). In this letter, DOHS outlines the boundaries of an area of concern which also includes your site.

DOHS states that naphthalene and phenanthrene were associated with former uses conducted on the site. These are members of a class of compounds called polynuclear aromatic hydrocarbons which are relatively immobile yet of concern in part because they are environmentally persistent.

Other compounds that might be of interest to you are the class of compounds that are detected in analyses performed for total petroleum hydrocarbons and volatile organic compounds. These compounds are usually associated with industrial operations that involve petrochemical processing.

WTI has performed a characterization of the 19875 Pacific Gateway Drive site, and has reached conclusions as to the extent and nature of the compounds present that could impact the utilization of the site.

Because we have extensive experience in the immediate vicinity of your site, we would be able to advise you on how best to perform an environmental audit of your facility at such time as a transfer in ownership would appear likely.

Coca-Cola/Torrance Job No. 2179J286

We hope this is sufficient for your needs at this time, please contact us if you have any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Clifford K Pollock, R.C.E., C.E.G. Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

/sdm

Enclosures:



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

October 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, COST ALLOCATIONS. JOB NO. 2179J286.

Dear Raul:

This letter summarizes the cost allocations for the work performed to date on the 19875 Pacific Gateway Drive site.

INTRODUCTION

The total cost for the above mentioned project includes WTI's charges to date, the excavation contractor's charges, and all current analytical costs associated with the project.

COST ALLOCATIONS

The total cost associated to the area inside the old building foundation is \$29,028.00. A breakdown of this is as follows:

WTI	\$15,000.00
Analytical	9,275.00
Excavation	4,753.00

The total cost associated to the area outside the old building foundation is \$40,744.00. A breakdown of this is as follows:

WTI	\$10,000.00
Analytical	6,185.00
Excavation	24,559.00

Coca-Cola Enterprises Job No. 2179J286

We trust this information is sufficient for your needs at this time. Please contact us if you have any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

/weh



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

October 3, 1989

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, SUMMARY REPORT, JOB NO. 2179J286.

Dear Raul:

This letter summarizes the status of work performed to date on the 19875 Pacific Gateway Drive site. It also outlines some of the options available to allow utilization of the site.

INTRODUCTION

Additional soil sampling and analysis was conducted on the site in September 1989 to better define the limits of contamination. The site was divided into a sampling grid and 60 samples were taken at a depth of 0.5 to 1.0 feet. Ten test pits were excavated and samples were taken at the 3, 4, and 5 foot depths from each. Additionally, other samples were taken from the base of excavations conducted to remove pipelines and grossly contaminated areas.

RESULTS OF ANALYSIS

All the above samples were analyzed for total petroleum hydrocarbons. Some were also analyzed for volatile organic compounds and polynucleated aromatic hydrocarbons. The results of the sampling and known analytical results can be briefly summarized as follows.

The upper 3 feet of the site contains hydrocarbon components varying between less than 100 ppm to over 5000 ppm. 90 percent of the samples have values that fall between 100 and 1000 ppm. The hydrocarbons appear to be randomly distributed and not attributable to any specific point source. Also there is no positive correlation between the results of analysis and odor or visual indicators.

For the purposes of this discussion, this means that the site contains approximately 36,000 cu/yds of material that could potentially be regulated by the State of California as waste.

Coca-Cola Enterprises - West Job No. 2179J386

REMOVAL LEVELS

There are many factors that the agency uses to determine the fate of a site. Generally hydrocarbons over 1000 ppm must be removed. Hydrocarbons over 100 would be removed from a site where there could be contact by people. A request, the reponse to which is pending, has been made to the agency for a determination as to removal levels for this site.

The compounds of concern, for which removal levels are extremely low, are polynucleated aromatic hydrocarbons (PNA's). These compounds were originally identified on the site. Subsequent sampling and analysis performed after soil was removed showed no PNA's detected in those samples. Further sampling and analysis for these compounds was performed and the results are due this week.

POSSIBLE SCENARIOS

Given the above conditions, assumptions and unknowns, the following scenarios are conceivable.

1. Action required on all material containing 100 ppm or more of hydrocarbons.

Approximately 36,000 cu/yds of material is involved in this scenario. Costs to dispose off-site range between \$50.00 and \$100.00 per cu/yd. The material could be bioremediated in place on the surface of the site in approximately one year, but this would delay construction of the building. Costs to bioremediate should be less than \$250,000.00. If it is determined that significant amounts of PNA's are present, The scenario would still be valid except that bioremediation would require a longer period of time.

The subsurface bioremediation cell concept would still be viable except that the cell would require more than one quarter of the area of the site and cost in excess of \$2,000,000.00.

Action required for material above 1000 ppm in hydrocarbons.

The amount of material involved in this scenario is approximately 2500 cu/yds. Disposal off-site is an option at the same costs as stated above. This action could be completed in one week.

A subsurface bioremediation cell could still be constructed to treat a lesser amount of material than the 5000 cu/yds originally envisioned, but the total cost would be greater than for off-site disposal.



Coca-Cola Enterprises - West Job No. 2179J386

3. No action required.

This scenario would only be possible if PNA's are not detected on the site from samples gathered in the last round of sampling.

Please contact us with any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven In. Myero

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

/sdm



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

October 5, 1989

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, COST ALLOCATIONS. JOB NO. 2179J286.

Dear Raul:

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Analytical	6,185.00
Excavation	24,559.00

Coca-Cola Enterprises
Job No. 2179J286

We trust this information is sufficient for your needs at this time. Please contact us if you have any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

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JOB INFORMATION MEMO

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Address	Client No	
City State State		
Attention Raul Ramerez Title	Phone	
If government client: ☐ Federal ☐ State ☐ Other		
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OPTIONS FOR COCA-COLA TORRANCE

1. LEAVE IN PLACE

To accomplish this option physically, the potential of contact with the contaminated soil would need to be limited. Since virtually the whole site is to be covered by newly constructed or installed material, this could be accomplished with reasonable care. Any areas of the site that would be landscaped would need the most attention to guarantee that no contaminated soil would be near the surface.

Pros

The underlying soil is highly impermeable clay, so mobility is lessened.

The contaminants of concern are relatively immobile.

The planned construction on the site could be designed to provide a capping function that would prevent contact.

The costs for this option are low.

Cons

Further analysis of samples would be necessary to show the presence or absence of PNA's, which are the true compounds of concern since some are suspected carcinogens. These compounds were detected in some of the material previously removed from the site.

Regulatory approval would be required to exercise this option. First, DOHS would determine the level of risk involved. The material would need to be classified, and if it was determined to be a RCRA waste a lengthy permit process would ensue. If it is only a hazardous material, then the Regional Water Board would need to determine if it was an acceptable discharge to land.

The time required to gain approval is unknown as there is no maximum time allowed for a response from the agencies.

2. PLACE IN A CELL

This option would require the moving and burial of all

material in one location. Otherwise it is similar to leaving in place.

Pros

The material would be better contained due to its being placed under controlled conditions.

The material could be retrieved without damage to the building, if at some time in the future this would be required.

Cons

The cost to accomplish this would be significant and it would delay construction of the building.

The same regulatory approvals would be required as in Option 1., above.

3. BIOREMEDIATE IN PLACE

This could be accomplished by the use of electro-osmosis to move the nutrients and micro-organisms through the near surface soil. A network of wells would serve as injection and withdrawal points and also as the anodes and cathodes of the system. The movement of the fluids would be horizontally between wells.

Pros

The contamination could be eventually reduced to suitable levels.

Cons

The clays would swell upon introduction of the fluids and have a negative effect on the building foundation.

The installation of the well system would require additional time and expense.

The operation of the system could require years to accomplish the desired reduction.

Regulatory approval would still be required.

The successful bioremediation of PNA's is not a certainty.

4. BIOREMEDIATE IN A CELL

Due to the quantities involved, costs for a liner would prove prohibitive so the cell could be constructed in the native clay soil which exhibits suitably high impermeabilities. The electro-osmosis system would be employed but the anode and cathode would be horizontal and the flow of liquids induced in a vertical direction.

Pros

The material would eventually be treated to desired concentrations.

Cons

The size of the cell would require a large portion of the site and construction would disrupt the start of the building.

The time to achieve desired end results is unknown.

Regulatory approval would still be required.

5. DISPOSE OFF-SITE

Disposal could be accomplished in a Class III landfill or in an asphalt production facility.

Pros

The material would be completely removed from the site.

Cons

The costs for removal and disposal would be significant.

There would be some potential long-term liability with disposal in a Class III site, but since the material would not be shipped under a manifest, tracing it would be difficult.

6. DILUTION

To accomplish this option, the known levels of highly

contaminated soil could be excavated and then either treated or taken to a disposal or to an asphalt recycler. The lower levels of soil could then be scarified using heavy equipment to mix the soil. Compaction would be necessary to lay the soil back in place.

Pros

This option would reduce the amount of soil to be treated or placed in a disposal, therefore, reducing the cost of the project.

The time frame for this would be minimal, limiting the delay of construction of the building.

Regulatory approval would not be necessary.

Cons

Further sample analysis would be necessary to show desired levels of contamination in the mixed soil, and also to show the removal of the high levels of contamination.

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WORD PROCESSING REQUEST FORM

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September 14, 1989

Raul Ramirez
Coca-Cola Enterprises West
1334 Central Avenue
Los Angeles, CA 90221

RE: COSTS FOR REMEDIATION; 19875 PACIFIC GATEWAY DRIVE; JOB NO. 2179J286.

Dear Raul:

This letter sets forth the costs to perform certain of the soil remediation options previously outlined in our letter of September 5, 1989.

Costs to excavate and backfill and also to provide on-site bioremediation or codisposal in an asphalt facility are detailed following. The costs are all based on the assumption that 5000 cubic yards of material will be processed.

EXCAVATE AND BACKFILL

We propose to excavate the contaminated soil and stockpile it elsewhere on the site so that it will not interfere with construction of the building. The excavation will be performed in an orderly fashion controlled by surveying methods to minimize removal of any uncontaminated material. Sampling and analysis will be performed as successive layers of soil are removed until the results of sampling segments on contaminated material remains, at which time the excavations will be backfilled with clean, compacted fill taken from elsewhere on the site.

Excavation\$	85,000
Sampling and Analysis	7,500
Surveying Control	3,500
Backfilling	15,000

TOTAL \$111,000

ON-SITE BIOREMEDIATION

This process was described in our earlier letter. Costs to perform this option have been determined to be as follows:

Excavate and Compact Cell Walls\$	38,000
Install Synthetic Liner	70,000
Install Leak Detection System(under liner)	15,000
Place contaminated soil in liner	25,000
Install fluid handling system	62,000
Install Bioreactor	15,000
Install Electro-osmosis System	19,000
Install Compacted Cover over the cell	20,000
Dose with Bacteria and Nutrients	14,000
Dispose of surplus soil from construction	
of the gell	45,000
Engineering and Project Management	40,000



The above costs do not include operation or sampling of the bioremediation process after initial start-up or sampling and analysis to confirm that the bioremediation process has been completed.

The major uncertainty for this option is the time required to receive permits from the two State agencies involved. For this reason costs for a second option that has no negative time constraints are included following.

CODISPOSAL IN ASPHALT PRODUCTION FACILITY

An asphalt production plant has been identified in Wilmington, CA that is permitted to take in soil contaminated with hydrocarbons and blend it into its asphalt products. Costs for This are as follows:

_			
Disposal rees		- <u>425,</u>	<u>000</u>
	Total —		\$515,000

We trust that this information is sufficient for your needs at this time. Please contact us with any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver Senior Project Manager Environmental Engineering Services

/weh

September 14, 1989

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Excavation\$ Sampling and Analysis Surveying Control Backfilling	7,500 3,500
TOTAL \$	111.000

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Install Synthetic Liner	70,000
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Install Fluid Handling System	62,000
Install Bioreactor	15,000
Install Electro-osmosis System	19,000
Install Compacted Cover over the Cell	20,000
Dose with Bacteria and Nutrients	14,000
Dispose of Surplus Soil from Construction	
of the Cell	45,000
Engineering and Project Management	40,000
Total \$	363,000

The above costs do not include operation or sampling of the bioremediation process after initial start-up or sampling and analysis to confirm that the bioremediation process has been completed.

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•	Total	\$515,000

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Peter A. Beaver Senior Project Manager Environmental Engineering Services

/weh

September 14, 1989

Raul Ramirez Coca-Cola Enterprises West 1334 Central Avenue Los Angeles, CA 90221

RE: COSTS FOR REMEDIATION; 19875 PACIFIC GATEWAY DRIVE; JOB NO. 2179J286.

Dear Raul:

This letter sets forth the costs to perform certain of the soil remediation options previously outlined in our letter of September 5, 1989.

Costs to excavate and backfill and also to provide on-site bioremediation or adispose in an asphalt facility are detailed following. The costs are all based on the assumption that 5000 cubic yards of material will be processed.

EXCAVATE AND BACKFILL

We propose to excavate the contaminated soil and stockpile it elsewhere on the site so that it will not interfere with construction of the building. The excavation will be performed in an orderly fashion controlled by surveying methods to minimize removal of any uncontaminated material. Sampling and analysis will be performed as successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of soil are removed until the results of sampling so successive layers of sampling soil are removed until the results of sampling soil are removed until the resu

Excavation\$	85,000
Sampling and Analysis	
	3,500
Backfilling	15,000

TOTAL \$111,000

OM-SITE BIOREMEDIATION

This process was described in our earlier letter. Costs to perform this option have been determined to be as follows:

Excavate and Compact Cell Walls\$	38,000
Install Synthetic Liner	70,000
Install Leak Detection System(under liner)	15,000
Place contaminated soil in liner	25,000
Install fluid handling system	62,000
Install Bioreactor	15,000
Install Electro-osmosis System	19,000
Install Compacted Cover over the cell	20,000
Dose with Bacteria and Nutrients	14,000
Dispose of surplus soil from construction	
of the dell	45,000
Engineering and Project Management	40,000



The above costs do not include operation or sampling of the bioremediation process after initial start-up or sampling and analysis to confirm that the bioremediation process has been completed.

The major uncertainty for this option is the time required to receive permits from the two State agencies involved. For this reason costs for a second option that has no negative time constraints are included following.

SODISPOSAL IN ASPHALT PRODUCTION FACILITY

An asphalt production plant has been identified in Wilmington, CA that is permitted to take in soil contaminated with hydrocarbons and blend it into its asphalt products. Costs for This are as follows:

Transportation	 \$ 90,000
Disposal Fees	 425,000

** Total ** \$515,000

We trust that this information is sufficient for your needs at this time. Please contact us with any questions or comments.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver Senior Project Manager Environmental Engineering Services

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September 7, 1989

Mr. Ed Todd Coca-Cola Enterprises One Coca-Cola Plaza N.W., 1017A Atlanta, Georgia 30313

RE: WERKLY PROJECT STATUS REPORT.

Dear Ed:

A brief summary of this weeks activities at each facility is presented below. All proposed work is subject to your authorization.

San Francisco, CA: Abandonment of the tanks located beneath 11th Street began on August 30, 1989. So far, one tank has been located. This tank will be triple rinsed and grouted on September 5, 1989. This tank was not in the area previously delineated by Harding-Lawson and Associates (HLA). Preliminary excavations to locate the remaining tanks have been unsuccessful at the locations defined by HLA and locations extrapolated by WTI based on the location of the one known tank. These remaining tanks may not exist. Additional work including quarterly sampling of the existing groundwater monitoring wells will continue during the week of September 4 through 8.

A draft Site Characterization Report has been delivered to you. WTI is waiting for comments prior to finalizing the report. Work on a draft Remedial Action Plan is progressing.

<u>San Diego, CA</u>: Draft Site Characterization Report and Remedial Action Plan are in final review. Documents should be sent out to CCE personnel by September 8.

Fresno, CA: Work plan submitted by RSI has been approved subject to conducting additional site characterization. WTI is currently scheduling additional assessment activities for the week of September 18, 1989.

Torrance, CA: According to Raul Ramirez, grading plans are to be available September 5, 1989. WTI will begin removing remaining buried pipes from the site around September 7, 1989. Tentative date to begin removal of contaminated soil is September 11, 1989. Recent letter from the county regulators indicated a desire to review any planned remedial activities. This may slow construction/implementation of the cell but will not effect the construction schedule of the building.

Medford, OR: No activity.

Yuma, AZ: Replacements for the influent/effluent pumps damaged during recent storms have arrived and will be installed on September 5, 1989. Quarterly sampling and periodic maintenance on the product ejectors is scheduled for September 11 through 15.

Oxford, AL: Drilling of the extraction wells to be used for the pump tests are completed. Additional monitoring wells will be installed during the week of September 4 through 8. Concurrent with the well installation, an OVA soil gas survey will be conducted to evaluate the southern extent of the plume. Aquifer testing should start about September 11. Final remedial design will be based on the aquifer testing data.

West Point, GA: WTI will conduct an OVA soil gas survey during the week of September 4 through 8. A quarterly groundwater sampling report of the existing monitoring wells is being developed.

<u>Worcester, MA</u>: WTI has received a copy of the investigation conducted by Chemcycle dated August 1989. WTI will review and advise in writing by September 8, 1989.

<u>Dallas, TX</u>: Maxim Engineers has replaced well MW-13. WTI was not notified and was not on-site to supervise or observe. No other activity on this site. Current plans are to conduct a pump test at the facility on September 14 and 15.

Tyler, TX: Soil gas survey has been completed by WTI. Preliminary data suggests a very limited soil contamination problem. One well suspected by Maxim Engineers of containing MEK and MIBK was resampled by WTI. No trace of MEK or MIBK was detected in WTI's samples down to 10 ppb. This was verified by both GC/FID direct injert and GC/MS Solvent Screen methods. Conclusion is Maxim's laboratory is evaluating the test results incorrectly. WTI has recommended a pump test to determine size, number, and location of groundwater extraction wells necessary to remediate the entire plume in an effective manner. Pump test is tentatively scheduled for the week of September 18-22.



Marshall, TX: Soil gas survey has been completed by WTI. Due to extremely tight formations beneath the site, limited data was generated regarding the extent of soil contamination. Several wells suspected by Maxim Engineers of containing MEK and MIBK were resampled by WTI. Analytical data indicates no MEK or MIBK concentrations down to 10 ppb. Conclusion is Maxim's laboratory has incorrectly evaluated the data. This is unfortunate since Maxim has already reported this data to the TWC and City of Marshall. WTI's data indicates some contamination has spread north across the street. WTI has recommended a pump test to determine the size, number, and location of extraction wells to remediate the plume effectively. Pump test is tentatively scheduled for the week of September 18-22.

Beaumont, TX: WTI has scheduled a soil gas survey to start on September 5. Following the soil gas study, a pump test will be performed to determine the size, number, and location of groundwater extraction wells to effectively remediate the plume. Pump test is tentatively scheduled for the week of September 18-22. WTI is preparing a quarterly report using most recent water levels and chemical data.

<u>Liberty, TX</u>: Analytical test results of groundwater samples indicate no BTEX contamination above detection levels. Low level TPHC contamination was detected but is attributed to back ground levels. WTI is planning some additional soil sampling the week of September 4-8. If no soil contamination is detected, site will be closed.

Hollywood, FL: A comprehensive site visit was conducted on August 16. Groundwater levels and free product thickness were measured. While onsite, WTI observed a technician from Blasland, Bouch, and Lee (BB&L) bailing free product from several of the wells. WTI's conclusions are that the manual removal of product from the aquifer (especially a drinking water aquifer) is inadequate. Several wells were found to be improperly constructed (bentonite in 4 wells, 2 wells were dry or nearly dry). Eleven wells were apparently destroyed by a road grader during construction of a truck wash and repair shop.

According to BB&L, groundwater sampling has not been completed in the last 4 months. In addition, the currently inoperative remediation system is to small and incorrectly located to capture or contain the plume. WTI has scheduled groundwater sampling to occur during the week of September 11-15. This should continue on a monthly basis to monitor the condition of the aquifer. WTI requests data from a pump test reportedly performed by BB&L. Based on that data, WTI will develop a revised Remedial Action Plan to remediate the plume effectively.

Miami, FL (Distribution Center): This facility was inspected on August 17. All existing monitoring wells were destroyed by recent work completed on the underground storage tanks (removal, repair, replacement?). Five new wells are reportedly planned by BB&L. WTI recommends that we review locations prior to installation of the wells. At least 3 wells should be located downgradient. In addition, a complete soil/groundwater contamination assessment report should be prepared. WTI is tentatively scheduling this work for the week of September 18-22.

Miami, FL (Service Station): This facility was inspected on August 17. Numerous safety hazards were observed on the site. In accordance with WTI's recommendations, a fence was installed on the site. WTI has also recommended a full contaminant assessment program be implemented. This work is currently scheduled for the week of September 25-29.

St. Augustine, FL: This facility was inspected on August 18. Four existing monitoring wells were located on the site. Approximately 2.34 feet of free product was found in Well MW-3. This is a reduction in product thickness from the 4 feet reported in June, 1989. This decrease most likely represents lateral migration of the product rather than significant product removal as a result of manual bailing. Manual bailing is currently occurring twice a week by Coca-Cola personnel. Both soil and groundwater contamination appear to be migrating off-site to the northeast. To increase product removal efficiency, WTI recommends immediate installation of an automated product recovery system. This work is tentatively scheduled for the week of September 18-22. A complete contaminant assessment program should be implemented. WTI has scheduled this work to begin during the week of October 2-6.

Harrisburg, PA: Existing on-site monitoring well will be sampled during the week of October 2-6. Concurrently, additional subsurface exploration will be conducted to locate 10,000 gallons of fuel oil which were lost due to contractor error. WTI recommends that CCE attorneys be involved to pursue cost recovery from the contractor responsible.

<u>Lancaster. PA</u>: Existing on-site monitoring well will be sampled during the week of October 2-6.

<u>Capitol Heights, MD</u>: Existing monitoring wells are known to be contaminated. WTI will sample these wells to quantify contaminant levels. This work is tentatively scheduled for the week of September 25-29.

<u>Lansing, MI</u>: Existing on-site monitoring wells will be sampled during the week of September 25-29.

Coca-Cola Enterprises

As always it is a pleasure to be of service to you and Coca-Cola Enterprises. If you have any questions or need additional information, please don't hesitate to call us at (602) 437-3737.

Sincerely,

WESTERN TECHNOLOGIES INC.

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

then Sn. Myers

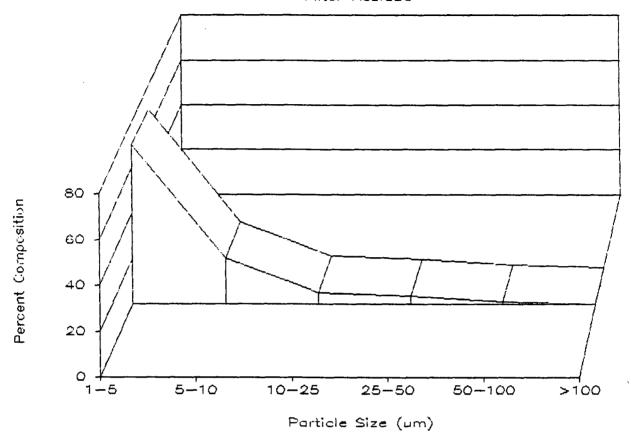
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cc: Doc Quinn



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CCE-West

September 7, 1989

Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attention: Mike Miller

Re: 19875 Pacific Gateway

Dear Mike:

As you are aware, Western Technologies, Inc. will be taking over the remediation of the contaminated soil at our Pacific Gateway site. The geotechnical work will be done by your company unless otherwise notified.

Please let me know who will be my contact.

Sincerely,

CCE-West

Raul Ramirez, Manager Facilities Department

RR:rp

CC: Western Technologies, Inc. Cadiz & Cadiz, Architect

CEIVED

SEP 1 5 1989

September 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, COORDINATION OF PIPELINE EXCAVATION.

JOB NO. 2179J286.

Dear Raul:

At your request I have contacted Mike Miller of Stoney-Miller Consultants to inform him that we plan to excavate and remove the abandoned, buried pipelines on the Torrance site.

He stated that his requirements in regard to this work would be to have a technician from his firm on-site at all times that backfilling and compaction operations were underway. The technician would measure the density of the compacted fill to assure completeness of compaction.

Additionally, Mike requested that he be given copies of any on-going correspondance regarding this project so that he is kept informed.

Please inform us how you wish to proceed in these matters. The pipelines should be removed as soon as practicable.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services

September 5, 1989

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, COORDINATION OF PIPELINE EXCAVATION. JOB NO. 2179J286.

Dear Raul:

At your request I have contacted Mike Miller of Stoney-Miller Consultants to inform him that we plan to excavate and remove the abandoned, buried pipelines on the Torrance site.

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Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services

September 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, DELIVERABLES FROM GARY CARLIN. JOB

NO. 2179J286.

Dear Raul:

One of the items of information that we need before beginning excavation in the area where hydrocarbons were detected are the formalized boring logs and sub-surface cross-sections that Gary Carlin and his staff are preparing from the work they have already performed on the site.

We require these at least one calendar week before excavation of the subject area can begin. This phase is now scheduled to start September 11, 1989.

Also along the same line, we have not yet received the qualifications of the contractor you have had bid on this work. We require this information by September 5, 1989 so that a qualified contractor is in place to start this phase of the work.

Please respond to these needs so that there is no delay in the schedule.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services



September 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, DELIVERABLES FROM GARY CARLIN. JOB NO. 2179J286.

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Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

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Environmental Engineering Services



September 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY PLAZA, REMEDIATION OF SOIL, LIST OF OPTIONS. JOB NO. 2179J286.

Dear Raul:

Following is a short description of the various options that we are investigating for treatment of soil on the subject site. These are the viable options remaining after our initial screening determination where a number of scenarios have been eliminated due to costs or infeasibility. They are listed in no particular order of importance.

Please note that all the options require that the contaminated soil be excavated and stockpiled on an area of the site so as not to interfere with the timely construction of the building.

DISPOSE OFF-SITE

Chemical analyses can be performed that would allow the soil material to be disposed of in a Class III landfill as non-hazardous material without any manifests or recordation of the material as waste. This could be accomplished in a comparatively short time with minimal impact on construction activities on the site.

Additional laboratory testing to certify the non-hazardous nature of the material would be required to pursue this option further.

BIOREMEDIATE ON-SITE

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Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services

September 5, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, COORDINATION OF PIPELINE EXCAVATION. JOB NO. 2179J286.

Dear Raul:

At your request I have contacted Mike Miller of Stoney-Miller Consultants to inform him that we plan to excavate and remove the abandoned, buried pipelines on the Torrance site.

He stated that his requirements in regard to this work would be to have a technician from his firm on-site at all times that backfilling and compaction operations were underway. The technician would measure the density of the compacted fill to assure completeness of compaction.

Additionally, Mike requested that he be given copies of any on-going correspondance regarding this project so that he is kept informed.

Please inform us how you wish to proceed in these matters. The pipelines should be removed as soon as practicable.

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We require these at least one calendar week before excavation of the subject area can begin. This phase is now scheduled to start September 11, 1989.

Also along the same line, we have not yet received the qualifications of the contractor you have had bid on this work. We require this information by September 5, 1989 so that a qualified contractor is in place to start this phase of the work.

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Coca-Cola Enterprises - West Job No. 2179J286

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3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

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Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services



September 1, 1989

Mr. Peter Beaver Western Technologies P.O. Box 21387 Phoenix, AZ 85036 Y89-209

Dear Mr. Beaver:

Per Woody Gibson's request, I am submitting this proposal for a benchscale test of soils contaminated with a tar-like substance in Torrance, California.

PROJECT_UNDERSTANDING

Western Technologies of Phoenix, AZ has a client in Torrance, California, who is the owner of property that is going to be developed. On the property is approximately 5000 cubic yards of soil impacted with a tar-like substance. Apparently, the California State Department of Health Services considers this soil to be hazardous and will only allow it to be transported off-site under a hazardous waste manifest unless it is tested to their standards.

The property owner does not want to possess any liability for this material, therefore, we are proposing two methods to treat this material.

SCOPE OF SERVICES

Thorne Environmental, Inc. with the help of its two divisions, Biota and ToxCo, proposes to run benchscale tests on the material using two methods:

- 1. ToxCo Division Chemical Fixation and Solidification. The objective for this treatment process is to lower all hazardous levels of the material so it may remain on-site or be hauled off-site as a non hazardous material to a local sanitary landfill. A five gallon sample will be provided by Western Technologies.
- 2. Biota Division Bioremediation. The objective for this treatment process is to lower all hazardous levels of the material so it may remain on-site or be hauled off-site to a local sanitary landfill. A five gallon sample will be provided by Western Technologies.

RECEIVED

Y89-209.SL3

SEP - 7 1989



ESTIMATES OF FEES

The following fee estimates are given to Western Technologies for budgetary purposes. Invoicing will done on a fixed price basis.

1. Chemical Fixation and Solidification (benchscale test)

\$ 5.500

2. Bioremediation (benchscale test)

\$ 6,500

Payment terms are 50% down with the order.

I have enclosed some standard information on the two processes. Please contact me with any questions or comments.

Sincerely,

THORNE ENVIRONMENTAL, INC.

Sezanno Larson

Suzanne Larson

Project Development

SL:lh

Enclosures



TOXCO CHEMICAL FIXATION AND SOLIDIFICATION PROCESS

a division of THORNE ENVIRONMENTAL, Inc

The chemical fixation and solidification process (CFS) was developed and designed for the chemical fixation and solidification of complex waste sludges and liquid with the aim of producing a non-toxic, environmentally safe material. After several years of laboratory development and commercial use, the process has now been used to treat more than 100,000,000 gallons of a wide range of waste sludge. The CFS Process utilizes a two-part, inorganic chemical system which reacts with all polyvalent metal ions and with certain other waste components; it also reacts within itself to form a chemically and mechanically stable solid. This system is based on the reaction between sulfides, silicates, and silicate setting agents which react in a controlled manner to produce a matrix from which the metals will not leach.

Toxco Benchscale Testing

Toxco recommends the testing and treatment of a small quantity of your contaminated soil or sludges to allow optimization of the process for your specific condition. In this way the regulating agencies will see data from your specific site and not be looking at a hypothetical example and your own confidence will be increased.

Analysis of treated soil is performed by a State approved independent laboratory according to procedures established by the U.S. Environmental Protection Agency and the Department of Health Services.

Toxco Metal Recyclers

Serious environmental problems occurs throughout the metalt recycling industry. Autoshredders and salvage yards, for instance, have been fined and shut down due to toxic waste generation. The autoshredders generate many hundreds of tons of fluff daily loaded with heavy metals. Toxco has the most effective system for fluff treatment.

Toxco

Metal Finishing Companies (Contaminated Soil)

Many plating and galvanizing companies: particularly those over 50 years old, have had tanks leak in the surrounding soils. To consolude and the process converse the metallic ions into insoluble compounds and the resulting soil has no heavy metals with soluble compounds those their Soluble threshold Limit Concentration.

With an applicable this assessment and closure plan, sites on he accept a said mede levely safe for less than one fifth the prior of healing to a supposedly second from

COV COOLING

Toxco

The printed circuit board industry has thousands of plants throughout the United States and Canada that have inadvertently allowed cupric solution to pass into the ground. Even though these practices have been corrected, there remains many sites with contaminated soils that the owners must now correct.

A Southern California printed circuit board manufacturer had soils with copper concentrations of 3,500 mg/kg with 300 mg/L in a soluble form more than 10 times the legal limit of 25 mg/L. After treatment only 0.4 mg/L were soluble. The risk assessment showed that the site could be closed for about 1/5 the money bid for excavation and hauling.

Advantages of the Toxco Process

Elimination of liability associated with Class I disposal.

Reduction of cost by 1/3 to 1/5 the cost of hauling and disposal in a Class I landfill.

Elimination of Hazardous Waste and Hazardous Waste Tax.

Capabilities and Resources

Toxco has effective field management, toxicologists, chemists, and engineering capable of properly supporting project efforts. Among some of Toxco's most significant operations underway or completed are:

Cleanup of 62,000 tons of PCB, lead, cadmium, and zinc laden autoshredder waste: Orange County, California.

Treatment of lead contaminated soil: Northern California.

Treatment of copper and lead contaminated sandblast sand: Northern California.

Treatment of chromium contaminated soil in California.

Treatment of lead contaminated soil: San Diego, California.

Chemical fixation and solidification: series of zinc and lead contaminated sites in California.





CONCEPTUAL PROCESS DESCRIPTION

ON-SITE AND IN-SITU BIOREMEDIATION

Bioremediation, as implemented by the BIOTA DIVISION, refers to the technology which utilizes selected species of site-specific native (indigenous) microorganisms along with appropriate inorganic and nutrient supplementation for the cleanup of environmental contaminants in soil and/ or water. The major advantages associated with bioremedial technology include permanent site cleanup (as opposed to landfill disposal, discharge, or volatilization of contaminants), in-situ and/or on-site implementation, substantial economy and cost-effectiveness, and ability to treat a variety of contaminants under diverse environmental conditions.

In general, bioremedial treatment falls under two broad categories. <u>In-situ</u> bioremediation refers to the treatment of soil and/or water in place, without the requirements of excavation, removal, transport, or relocation. <u>In-situ</u> biotreatment is especially beneficial for areas which are difficult to physically access, and/or where both soil and groundwater remediation is required for the same site. On-site bioremediation treatment refers to above ground treatment of the contaminated matrix. Although this is typically soil, above-ground bioreactors may also be utilized for the treatment of water or slurry mixes. It should be noted that both <u>in-situ</u> and on-site methodologies may be integrated as a single treatment system for selected projects under appropriate conditions.

In-situ bioremediation may be implemented for soil, water, or both, depending on regulatory requirements and site-specific characteristics. A particularly advantageous integrated form of in-situ bioremediation makes use of the soil flushing concept in which appropriate buffers, nutrients and microorganisms are pressure injected into and through the treatable soil via a series of appropriately placed injected wells. Hydrogen peroxide may also be injected concurrently (if non-bioinhibitory) to maximize aerobic contaminant degradation. material percolates and leaches through process-compatible soil into contaminated groundwater which is then withdrawn by strategically placed recovery wells and recirculated back through the soil after receiving additional nutrients and/or organisms (as appropriate). The withdrawn material alternatively may be passed through a series of on-site bioreactors and/or carbon canisters for further contaminant bioreduction prior to reinjection or discharge (if acceptable cleanup levels in water have been achieved). This recirculating/recycling process, either with or without bioreactors/carbon canisters, induces bioactivity over a large area of influence by inducing subsurface nutrient and organism dispersion as well as oxygenation (where appropriate). Furthermore, the operational design is such that the potential for off-site migration of contaminants is substantially minimized due to induced aqueous cones of depression and motive flux toward recovery wells. situ bioremedial processes have substantial inherent flexibility to accommodate site-specific physical characteristics, contaminant profiles, and diverse biological criteria.

On-site bioremedial treatment of soil generally requires the excavation and layout of treatable material on an impermeable liner to a depth of approximately 18" to 36". Appropriate numbers of soil treatment bays may be prepared in accordance with space availability and the amount of material to be treated. A hydraulic delivery system consisting of appropriately spaced sprinklers and connectors is emplaced around the periphery of the soil treatment bay(s). This delivery system is typically connected to a main water reservoir and a small biomaterials mixing tank. Volume capacities of these tanks are dependant upon site-specific requirements.

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PARTIAL PROJECT LISTING

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BIOTA has provided or is continuing to provide the following bioremedial services to its clients:

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- o On-site bioremedial cleanup of crude oil-contaminated soil (Los Angeles, CA)
- o On-site bioremedial soil cleanup of phthalate esters from train derailment (Flagstaff, AZ)

THORNE ENVIRONMENTAL ATG COMPONY

September 1, 1989

Y89-209

Mr. Peter Beaver Western Technologies P.O. Box 21387 Phoenix, AZ 85036

Dear Mr. Beaver:

Per Woody Gibson's request, I am submitting this proposal for a benchscale test of soils contaminated with a tar-like substance in Torrance, California.

PROJECT UNDERSTANDING

Western Technologies of Phoenix, AZ has a client in Torrance, California, who is the owner of property that is going to be developed. On the property is approximately 5000 cubic yards of soil impacted with a tar-like substance. Apparently, the California State Department of Health Services considers this soil to be hazardous and will only allow it to be transported off-site under a hazardous waste manifest unless it is tested to their standards.

The property owner does not want to possess any liability for this material, therefore, we are proposing two methods to treat this material.

SCOPE OF SERVICES

Thorne Environmental, Inc. with the help of its two divisions, Biota and ToxCo, proposes to run benchscale tests on the material using two methods:

- 1. ToxCo Division Chemical Fixation and Solidification. The objective for this treatment process is to lower all hazardous levels of the material so it may remain on-site or be hauled off-site as a non hazardous material to a local sanitary landfill. A five gallon sample will be provided by Western Technologies.
- 2. Biota Division Bioremediation. The objective for this treatment process is to lower all hazardous levels of the material so it may remain on-site or be hauled off-site to a local sanitary landfill. A five gallon sample will be provided by Western Technologies.

Y89-209.SL3



ESTIMATES OF FEES

The following fee estimates are given to Western Technologies for budgetary purposes. Invoicing will done on a fixed price basis.

1. Chemical Fixation and Solidification (benchscale test)

\$ 5,500

2. Bioremediation (benchscale test)

\$ 6,500

Payment terms are 50% down with the order.

I have enclosed some standard information on the two processes. Please contact me with any questions or comments.

Sincerely,

THORNE ENVIRONMENTAL, INC.

Leganno Larson

Suzanne Larson

Project Development

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Enclosures

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THORNE ENVIRONMENTAL, INC.

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FAX TRANSMISSION REPORT COVER

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THORNE ENVIRONMENTAL, INC. 4887 EAST LA PALMA AVENUE, SUITE 701 ANAHEIM, CALIFORNIA 92807

> FAX # = (714) 693-1873 PHONE # = (714) 693-1818

007 000125



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THORNE ENVIRONMENTAL, INC.

Suzanne Larson

Project Development

SL:lb

Enclosures



TOXCO CHEMICAL FIXATION AND SOLIDIFICATION PROCESS

EHORNE ENVIRONMENTAL

The chemical fixation and solidification process (CFS) was developed and designed for the chemical fixation and solidification of complex waste sludges and liquid with the aim of producing a non-toxic, environmentally safe material. After several years of laboratory development and commercial use, the process has now been used to treat more than 100,000,000 gallons of a wide range of waste sludge. The CFS Process utilizes a two-part, inorganic chemical system which reacts with all polyvalent metal ions and with certain other waste components; it also reacts within itself to form a chemically and mechanically stable solid. This system is based on the reaction between sulfides, silicates, and silicate setting agents which react in a controlled manner to produce a matrix from which the metals will not leach.

Toxco

Benchscale Testing

Toxco recommends the testing and treatment of a small quantity of your contaminated soil or sludges to allow optimization of the process for your specific condition. In this way the regulating agencies will see data from your specific site and not be looking at a hypothetical example and your own confidence will be increased.

Analysis of treated soil is performed by a State approved independent laboratory according to procedures established by the U.S. Environmental Protection Agency and the Department of Health Services.

Toxco

Metal Recyclers

Serious environmental problems occur throughout the metal recycling industry. Autoshredders and salvage yards, for instance, have been fined and shut down due to toxic waste generation. The autoshredders generate many hundreds of tons of fluff daily loaded with heavy metals. Toxco has the most effective system for fluff treatment.

Toxco

Metal Finishing Companies (Contaminated Soil)

Many plating and galvanizing companies, particularly those over 10 years old, have had tanks leak in the surrounding soils. Toxco's chemical fixation process converts the metallic ions into insoluble compounds and the resulting soil has no heavy metals with soluble components above their Soluble Threshold Limit Concentration.

With an applicable risk assessment and closure plan, sites can be treated and made legally safe for less than one fifth the price of hauling to a supposedly secure dump. THIS WELENVIRON

Toxco

Printed Circuit Board Manufacturers

The printed circuit board industry has thousands of plants throughout the United States and Canada that have inadvertently allowed cupric solution to pass into the ground. Even though these practices have been corrected, there remains many sites with contaminated soils that the owners must now correct.

A Southern California printed circuit board manufacturer had soils with copper concentrations of 3,500 mg/kg with 300 mg/L in a soluble form more than 10 times the legal limit of 25 mg/L. After treatment only 0.4 mg/L were soluble. The risk assessment showed that the site could be closed for about 1/5 the money bid for excavation and hauling.

Advantages of the Toxco Process

Elimination of liability associated with Class I disposal.

Reduction of cost by 1/3 to 1/5 the cost of hauling and disposal in a Class I landfill.

Elimination of Hazardous Waste and Hazardous Waste Tax.

Capabilities and Resources

Toxco has effective field management, toxicologists, chemists, and engineering capable of properly supporting project efforts. Among some of Toxco's most significant operations underway or completed are:

Cleanup of 62,000 tons of PCB, lead, cadmium, and zinc laden autoshredder waste: Orange County, California.

Treatment of lead contaminated soil: Northern California,

Treatment of copper and lead contaminated sandblast sand: Northern California.

Treatment of chromium contaminated soil in California.

Treatment of lead contaminated soil: San Diego, California.

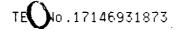
Chemical fixation and solidification: series of zinc and lead contaminated sites in California.

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CONCEPTUAL PROCESS DESCRIPTION

ON-SITE AND IN-SITU BIOREMEDIATION

Bioremediation, as implemented by the BIOTA DIVISION, refers to the technology which utilizes selected species of site-specific native (indigenous) microorganisms along with appropriate inorganic and nutrient supplementation for the cleanup of environmental contaminants in soil and/ or water. The major advantages associated with bioremedial technology include permanent site cleanup disposal, discharge, or volatilization of contaminants), opposed to landfill on-site implementation, substantial economy and costin-situ and/or effectiveness, and ability to treat a variety of contaminants under diverse environmental conditions.

In general, bioremedial treatment falls under two broad categories. bioremediation refers to the treatment of soil and/or water in place, without the requirements of excavation, removal, transport, or relocation. <u>In-situ</u> biotreatment is especially beneficial for areas which are difficult to physically access, and/or where both soil and groundwater remediation is required for the same On-site bioremediation treatment refers to above ground treatment of the Although this is typically soil, above-ground bioreactors may contaminated matrix. also be utilized for the treatment of water or slurry mixes. It should be noted that both <u>in-situ</u> and on-site methodologies may be integrated as a single treatment system for selected projects under appropriate conditions.

In-situ bioremediation may be implemented for soil, water, or both, depending on regulatory requirements and site-specific characteristics. A particularly advantageous integrated form of in-situ bioremediation makes use of the soil flushing concept in which appropriate buffers, nutrients and microorganisms are pressure injected into and through the treatable soil via a series of appropriately placed injected wells. Hydrogen peroxide may also be injected concurrently (if non-bioinhibitory) to maximize aerobic contaminant degradation. material percolates and leaches through process-compatible soil into contaminated groundwater which is then withdrawn by strategically placed recovery wells and recirculated back through the soil after receiving additional nutrients and/or organisms (as appropriate). The withdrawn material alternatively may be passed through a series of on-site bioreactors and/or carbon canisters for further contaminant bioreduction prior to reinjection or discharge (if acceptable cleanup levels in water have been achieved). This recirculating/recycling process, either with or without bioreactors/carbon canisters, induces bioactivity over a large area of influence by inducing subsurface nutrient and organism dispersion as well as oxygenation (where appropriate). Furthermore, the operational design is such that the potential for off-site migration of contaminants is substantially minimized due to induced aqueous cones of depression and motive flux toward recovery wells. situ bioremedial processes have substantial inherent flexibility to accommodate site-specific physical characteristics, contaminant profiles, and biological criteria.

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3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 29, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: SCHEDULE FOR REMEDIATION, 19875 PACIFIC GATEWAY DRIVE. JOB NO. 2179J286.

Dear Raul:

Following is a summary of the timeline for providing you with written documentation for work on the subject site.

The following items are planned for the dates stated:

August 25 - collect bulk samples from site.

<u>August 28 to September 5</u> - trace and remove abandoned underground piping.

<u>September 1</u> - preliminary work plan due outlining treatment options.

<u>September 5 to September 11</u> - tentatively receive grading permits and cut western area to rough grade.

<u>September 8</u> - conceptual work plan due including preliminary cost estimate.

<u>September 11 to September 29</u> - excavation of contaminated areas and confirmatory sampling.

<u>September 22</u> - final design for treatment operation.

October 2 - begin treatment operation at site. (Pending regulatory approvals.)

The above dates are the earliest occurrence for the specific items. The timeline may be slipped to accommodate construction with no adverse effects.

Coca-Cola Enterprises - West Job No. 2179J286

We will be in contact with you to set up the pipeline tracing and removal and to review the qualifications and training of the excavation contractor.

2

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Stun En. Myles

Steven M. Myers, R.G. Director, UST and Groundwater Programs Environmental Engineering Services

August 29, 1989

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October 2 - begin treatment operation at site. (Pending regulatory approvals.)

The above dates are the earliest occurrence for the specific items. The timeline may be slipped to accommodate construction with no adverse effects.

Coca-Cola Enterprises - West Job No. 2179J286

We will be in contact with you to set up the pipeline tracing and removal and to review the qualifications and training of the excavation contractor.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven Sn. Myers

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 29, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: SCHEDULE FOR REMEDIATION, 19875 PACIFIC GATEWAY DRIVE. JOB NO. 2179J286.

Dear Raul:

Following is a summary of the timeline for providing you with written documentation for work on the subject site.

The following items are planned for the dates stated:

August 25 - collect bulk samples from site.

<u>August 28 to September 5</u> - trace and remove abandoned underground piping.

<u>September 1</u> - preliminary work plan due outlining treatment options.

<u>September 5 to September 11</u> - tentatively receive grading permits and cut western area to rough grade.

<u>September 8</u> - conceptual work plan due including preliminary cost estimate.

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Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

Stun En. Myles



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 28, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: LINE LOCATING SERVICE.

Dear Raul:

We have located a line locating service contractor to trace and mark the location of any buried steel pipelines that may still be on the Pacific Gateway Drive site.

They are available on August 30 or September 5, 1989. The cost to you would not exceed \$1,500.00.

Please advise as to your desires. Also, we have identified a qualified contractor to excavate and remove all the lines.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver

Senior Project Manager

Environmental Engineering Services



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

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Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

/weh

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August 24, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE. JOB NO. 2179J286. - Januare

Dear Raul:

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Coca-Cola Enterprises - West Job No. 2179J286

We appreciate the time you could spend with us yesterday, and are working towards the timely completion of this project.

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Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services

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WORD PROCESSING REQUEST FORM

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DOCUMENT REVIEW SIGN-OFF SHEET

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Technical Reviewer	-		
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Director			
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NOTE:	Please sign	and date after f	inal review, or

August 29, 1989

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: PIPELINE TRACING, PACIFIC GATEWAY BOULEVARD.

Dear Raul:

This letter concerns the abandoned pipelines on the subject site. We recommend tracing and removal in the following fashion:

- 1. Determine if excavation contractor is qualified and trained to work on the site in the presence of hazardous materials.
- Excavate and remove those pipelines already identified with contractor providing materials and personnel to contain any pipeline contents.
- 3. Survey the site for any other unidentified pipelines by the use of an underground utility locating service.
- 4. Remove those additional lines identified.
- 5. Backfill trenches and compact to satisfy overall requirements.
- 6. If any pipelines enter areas where contaminated soil material is present, that material will be set aside for treatment.

The costs to supervise this work will be approximately \$500.00/day. The locating service would sweep the entire site for \$1,500.00. If you desire for WTI to provide the excavation, removal, and possible material containment, costs for this can be provided.

Coca-Cola Enterprises - West

Please let us know at your earliest convenience how you wish to proceed. Sincerely,

WESTERN TECHNOLOGIES INC.

Peter A. Beaver Senior Project Manager Environmental Engineering Services

Steven M. Myers, R.G. Director, UST and Groundwater Programs Environmental Engineering Services

/weh

3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 24, 1989

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE. JOB NO. 2179J286.

Dear Raul:

This letter serves to document the deliverables pertaining to the subject site that Gary Carlin of Stoney-Miller Consultants agreed to provide.

- 1. Formalized boring logs and geologic cross sections for the areas of the site where contamination remains in place.
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Coca-Cola Enterprises - West Job No. 2179J286

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Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

Steven M. Myers, R.G.

Director, UST and Groundwater Programs Environmental Engineering Services

Steven Sn. Snyes

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FILE NO.:	589-080
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FAX COVER LETTER

TO: Stare Myses	FROM: VOE fog/w
	Environmental Applications, Inc.
	Waltham, MA 02154
FAX NO: 1(602) 437 3140	FAX NO: 617-890-3918
RE:	
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ENVIRONMENTAL APPLICATIONS, INC.

August 21, 1989 EA File No. 589-080

Steven M. Myers, R.G.
Director, UST & Groundwater Services
Western Technologies Inc.
3737 East Broadway Road
PO Box 21387
Phoenix, Arizona 85036

Re: Coca-Cola Facility
Torrance, California
Contaminated Soil
Remediation Work Plan

Dear Steve:

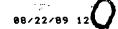
In accordance with our recent conversations, Environmental Applications, Inc. (EA) is pleased to provide you with this Work Plan to remediate petroleum contaminated soils at Coca-Cola's Torrance facility. The purpose of this Work Plan is to identify design/construction issues for a below-grade treatment cell and the above-grade system components. It is our understanding that Western Technologies Inc. (WTI) has reviewed the available laboratory analytical data and believes bioremediation to be applicable to the contaminants identified at the site.

Preliminary design plans for the treatment cell are focused on maximizing fluid flux and treatment flexibility while limiting the cell volume. The contaminated soil will be isolated between layers of crushed stone which will contain the permeant distribution/collection system. Based on WTI's contaminated soil volume estimate of 5,000 yd³ with a permeability of 1x10-6 cm/sec and a flow rate of 0.1 gpd/ft² of contaminated soil surface area, the cell volume is approximately 27,000 yd³. While the on-site space available for construction will accommodate a cell of this size, additional field investigations aimed at accurately determining contaminated soil volumes coupled with laboratory testing to determine permeability and acceptable permeant flux may decrease the cell volume. As such, EA is proposing the following Work Plan.

WORK PLAN

The Work Plan is divided into the seven tasks described below.

Tank Management/Environmental Remediation Services/Construction Management
335;Bear Hill Road Waltham, MA 02154 617-890-3922





TASK 1.0 - ADDITIONAL FIELD INVESTIGATION

WTI will perform additional field investigations to determine the total volume of contaminated soil at the site. During the course of their investigations, WTI will collect representative samples of the contaminated soil strata for laboratory testing by EA.

TASK 2.0 - LABORATORY TESTING

The laboratory testing program will focus on both the biological and physical properties of the contaminated soil. It is our understanding that WTI will be responsible for investigating the feasibility and operating parameters of the bioremediation process within the soil matrix.

EA will conduct geotechnical testing to determine the contaminated soil characteristics and permeability. Following the laboratory testing, WTI and EA will discuss the results of the program and determine the appropriate treatment approach.

TASK 3.0 - TREATMENT CELL DESIGN

EA will complete the treatment cell design following the laboratory testing program. The treatment cell will be designed to limit the overall size of the below grade components while providing a uniform flow field through the contaminated soil. Treatment flexibility such as redundant and/or multi-purpose distribution and collection systems will be incorporated in the design. All below-grade components shall be chemically resistant to the contaminants identified at the site and to the permeant employed as part of the remediation efforts. In addition, the structural integrity of the cell will not adversely affect the above-grade use of the area (ie. parking and vehicle traffic). The design will be reviewed by WTI to assure compliance with the State of California Construction Standards for a Class II Surface Impoundment.

TASK 4.0 - CONSTRUCTION MANAGEMENT

EA will provide construction management during installation of the below-grade cell to insure compliance with the project design documents.

TASK 5.0 - TREATMENT SYSTEM DESIGN

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EA will fabricate and install the treatment system at a predetermined location at the site. It is our understanding that WTI and/or Coca-Cola will be responsible for obtaining all the



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TASK 7.0 - START-UP/FULL SCALE OPERATION

Following installation of the above-grade components, WTI and EA will conduct start-up and initial operation of the treatment system to insure optimum performance.u

We trust that this Work Plan is acceptable to both WTI and Coca-Cola. However, should you have any questions please contact us at your convenience. We are looking forward to working with WTI on this interesting project.

Very truly yours,

ENVIRONMENTAL APPLICATIONS, INC.

Mikhail Schiller, Sc.D., P.E.

Senjor Project Manager

Carl L. Eidam President

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TRANSACTION REPORT

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ENVIRONMENTAL APPLICATIONS, INC.

August 21, 1989 EA File No. 589-080

Steven M. Myers, R.G. Director, UST & Groundwater Services Western Technologies Inc. 3737 East Broadway Road PO Box 21387 Phoenix, Arizona 85036

Re: Coca-Cola Facility
Torrance, California
Contaminated Soil
Remediation Work Plan

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Mikhail Schiller, Sc.D., P.E.

Senjor Project Manager

Carl L. Eidam President



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 24, 1989

Raul Ramirez
Coca-Cola Enterprises - West
1334 South Central Avenue
Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE. JOB NO. 2179J286.

Dear Raul:

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Peter A. Beaver

Senior Project Manager

Environmental Engineering Services

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Steven M. Myers, R.G.

Director, UST and Groundwater Programs

Environmental Engineering Services

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ENVIRONMENTAL APPLICATIONS, INC.

AUG 2 8 1989

August 21, 1989
WESTERN TECHNOLOGIES, INC.
EA File No. S-89-080
PHOENIX, ARIZONA

Steven M. Myers, R.G. Director, UST & Groundwater Services Western Technologies Inc. 3737 East Broadway Road PO Box 21387 Phoenix, Arizona 85036

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Copyright 1989 Environmental Applications, Inc.



Western Technologies Inc. - August 21, 1989 - File No. S-89-080
Page 2

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Western Technologies Inc. - August 21, 1989 - File No. S-89-080
Page 3

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ENVIRONMENTAL APPLICATIONS, INC.

Mikhail Schiller, Sc.D., P.E.

Senior Project Manager

Carl L. Eidam

President

WORK PLAN OUTLINE

TORRANCE SITE

Four likely scenarios for remediation of the contaminated soil have been identified. They are:

- 1. Remove and bioremediate off site at a permitted facility.
- 2. Perform additional sampling and analyses for transport out of state as non-hazardous waste.
- 3. Conduct on site physical processing of the material for transport off site to an asphalt plant which will blend the soil into an asphalt product.
- 4. Construct a subsurface lined cell and conduct bioremediation on site. A detailed description follows:



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

August 16, 1989

Mr. Clarence Geick B.K.K. Corporation 2550 237th Street Torrance, CA 90505

RE: BIOREMEDIATION OF SOIL

Dear Mr. Geick:

I appreciate the time you spent on the 14th discussing the possibility of performing bioremediation of soil on one of your sites that might be licensed for such an activity.

Following is a brief description of what we had envisioned. Please review this to see if the concept is of further interest.

Our client has acquired a site in Torrance where soil contaminated by heavy hydrocarbon components is present. All the contamination was supposedly removed from the site, but some was missed and remains. The quantity of concern is approximately 4000 cubic yards, measured in place. Chemical analysis of soil samples obtained from boring shows no PCB's or volatile organic compounds detectable. Attached to this letter are some of the results of analysis.

The client desires to make use of the site by beginning to construct their proposed facility. During this work, they will be able to excavate the contaminated material. The material is amenable to bioremediation, however, the constraints of the project do not allow the time or space to conduct any treatment on site. Therefore, one option is to investigate the possibility that a licensed site would be available where a portion could be "rented" to conduct the bioremediation. The client would fully expect to pay for any efforts expended to achieve the necessary regulatory clearance, the use of the site and any operations carried out on the site.

The time required to complete the treatment would depend on the space available. Material could be stockpiled in the interim.

Western Technologies has staff experienced in bioremediation technologies, but could utilize the services of the staff or equipment available at the site for earth moving activities if this was desireable from your standpoint.

We would appreciate your timely consideration of this proposed scenario, as our client wishes to initiate construction in the near future.

Sincerely,

WESTERN TECHNOLOGIES INC.

Peter Beaver

Senior Project Manager

Environmental Engineering Services

REPORT

TRUESDAIL LABORA. JRIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS



AREA CODE 714 . AREA CODE 213 . 225-1564 TRUELABS CABLE:

CLIENT

DATE

June 26, 1989

RECEIVED June 21, 1989

SAMPLE

4 Soil samples Project:

Torrance LABORATORY NO.

INVESTIGATION

Total Petroleum Hydrocarbons (418.1)

Sample I.D.

RESULTS Concentration mg/kg

E-1,2' E-21,31

E-5,2'

E-4,4'

2,760 -

1,340 ~

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Project Manager

REPORT

TRUESDAIL LABORAT RIES, INC.

EMISTS - MICROBIOLOGISTS - ENGINEERS



14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 + 730-6239 AREA CODE 213 + 225-1564 CABLE: TRUELABS

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

CLIENT

SAMPLE E-1,2

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration** Micrograms/Kilogram
Phenol	1.98	mg/kg	ND
bis(2-Chloroethyl) ether	1.98	mg/kg	ND
2-Chlorophenol	1.98	mg/kg	ND
1,3-Dichlorobenzene	1.98	mg/kg	ND
1,4-Dichlorobenzene	1.98	mg/kg	ND
Benzyl Alcohol	3.90	mg/kg	ND
1,2-Dichlorobenzene	1.98	mg/kg	ND
2-Methylphenol	1.98	mg/kg	ND
bis(2-Chloroisopropyl) ether	1.98	mg/kg	ND
4-Methylphenol	1.98	mg/kg	ND
N-Nitroso-Di-N-propylamine	1.98	mg/kg	ND
Hexachloroethane	1.98	mg/kg	ND
Nitrobenzene	1.98	mg/kg	ND
Isophorone	1.98	mg/kg	ND
2-Nitrophenol	1.98	mg/kg	ND
2,4-Dimethylphenol	1.98	mg/kg	ND
Benzoic Acid	9.90	mg/kg	ND
bis(2-Chloroethyoxy)methane	1.98	mg/kg	ND
2,4-Dichlorophenol	1.98	mg/kg	N D
1,2,4-Trichlorobenzene	1.98	mg/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

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^{**} ND = Not detected, below detection limit.

Laboratory Number: June 26, 1989 Page two

Constituent	Approximate Detection Limit*		Concentration** Micrograms/Rilogram	
Naphthalene	1-98	mg./kg	ND	
4-Chloroaniline	3.90	mg/kg	ND	
Hexachlorobutadiene	1.98	mg/kg	ND	
4-Chloro-3-methylphenol	3.90	mg/kg	ND	
2-Methylnaphthalene	1.98	mg/kg	ND	
Hexachlorocyclopentadiene	1.98	mg/kg	ND	
2,4,6-Trichlorophenol	1.98	mg/kg	ND	
2,4,5-Trichlorophenol	1.98	mg/kg	ND	
2-Chloronaphthalene	1.98	mg/kg	ND	
2-Nitroaniline	9.90	mg/kg	ND	
Dimethyl phthalate	1.98	mg/kg	ND	
Acenaphthylene	1.98	mg/kg	ND	
3-Nitroaniline	9.90	mg/kg	ND	
Acenaphthene	1.98	mg/kg	ND	
2,4-Dinitrophenol	9.90	mg/kg	ND	
4-Nitrophenol	9.90	mg/kg	ND	
Dibenzofuran	1.98	mg/kg	ND	
2,4-Dinitrotoluene	1.98	mg/kg	ND	
2,6-Dinitrotoluene	1.98	mg/kg	ND	
Diethylphthalate	1.98	mg/kg	ND	
4-Chlorophenyl phenyl ether	1.98	mg/kg	ND	
Fluorene	1.98	mg/kg	ND	
4-Nitroaniline	9.90	mg/kg	ND	
4,6-Dinitro-2-methylphenol	9.90	mg/kg	ND	
N-Nitrosodiphenylamine	1.98	mg/kg	ND	
4-Bromophenyl phenyl ether	1.98	mg/kg	ND	
Hexachlorobenzene	1.98	mg/kg	ND	
Pentachlorophenol	9.90	mg/kg	ND	
Phenanthrene	1.98	mg/kg	ND	
Anthracene	1.98	mg/kg	ND	
Di-n-butylphthalate	1.98	mg/kg	ND	
Fluoranthene	1.98	mg/kg	ND	
Pyrene	1.98	mg/kg	ND ND	
Butyl benzyl phthalate	1.98	mg/kg	N D	
3,3'-Dichlorobenzidine	3.90	mg/kg	ND	
Benzo(a)anthracene	1.98	mg/kg	N D	
bis(2-ethylhexyl)phthalate	1.98	mg/kg	ND	

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^{**} ND = Not detected, below detection limit.

Laboratory Number: June 26, 1989 Page three

Constituent	Approximate Detection Limit*	Concentration** Micrograms/Kilogram
Chrysene	1.98 mg/kg	ND
Di-n-octyl phthalate	1.98 mg/kg	ND
Benzo(b)fluoranthene	1.98 mg/kg	ND
Benzo(k)fluoranthene	1.98 mg/kg	ND
Benzo(a)pyrene	1.98 mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98 mg/kg	ND
Dibenz(a,h)anthracene	1.98 mg/kg	ND
Benzo(g,h,i)perylene	1.98 mg/kg	ND

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- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Greg W. Everett Project Manager

REPORT

TRUESDAIL LABORATORIES. INC.

MICROBIOLOGISTS - ENGINEERS TESTING DEVELOPMENT



TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

CLIENT

SAMPLE

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

INVESTIGATION

B-2,3'

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration** Micrograms/Kilogram	
Phenol	1.98	mg/kg	ND	
bis(2-Chloroethyl) ether	1.98	mg/kg	ND	
2-Chlorophenol	1.98	mg/kg	ND	
1,3-Dichlorobenzene	1.98	mg/kg	ND	
1,4-Dichlorobenzene	1.98	mg/kg	ND	
Benzyl Alcohol	3.90	mg/kg	ND	
1,2-Dichlorobenzene	1.98	mg/kg	ND	
2-Methylphenol	1.98	mg/kg	ND	
bis(2-Chloroisopropyl) ether	1.98	mg/kg	ND	
4-Methylphenol	1.98	mg/kg	ND	
N-Nitroso-Di-N-propylamine	1.98	mg/kg	ND	
Hexachloroethane	1.98	mg/kg	ND	
Nitrobenzene	1.98	mg/kg	ND	
Isophorone	1.98	mg/kg	ND	
2-Nitrophenol	1.98	mg/kg	ND	
2,4-Dimethylphenol	1.98	mg/kg	ND	
Benzoic Acid	9.90	mg/kg	ND	
bis(2-Chloroethyoxy)methane	1.98	mg/kg	ND	
2,4-Dichlorophenol	1.98	mg/kg	ND	
1,2,4-Trichlorobenzene	1.98	mg/kg	ND	

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ND = Not detected, below detection limit.

Laboratory Number: June 26, 1989 Page two

Constituent	Approximate Detection Limit*	Concentration** Micrograms/Kilogram
Naphthalene	1.98 mg/kg	ND
4-Chloroaniline	3.90 mg/kg	ND
Hexachlorobutadiene	1.98 mg/kg	N D
4-Chloro-3-methylphenol	3.90 mg/kg	N D
2-Methylnaphthalene	1.98 mg/kg	ND
Hexachlorocyclopentadiene	1.98 mg/kg	ND
2,4,6-Trichlorophenol	1.98 mg/kg	N D
2,4,5-Trichlorophenol	1.98 mg/kg	ND
2-Chloronaphthalene	1.98 mg/kg	ND
2-Nitroaniline	9.90 mg/kg	ND
Dimethyl phthalate	1.98 mg/kg	ND
Acenaphthylene	1.98 mg/kg	ND
3-Nitroaniline	9.90 mg/kg	ND
Acenaphthene	1.98 mg/kg	ND
2,4-Dinitrophenol	9.90 mg/kg	ND
4-Nitrophenol	9.90 mg/kg	ND
Dibenzofuran	1.98 mg/kg	ND
2,4-Dinitrotoluene	1.98 mg/kg	ND
2,6-Dinitrotoluene	1.98 mg/kg	ND
Diethylphthalate	1.98 mg/kg	ND
4-Chlorophenyl phenyl ether	1.98 mg/kg	ND
Fluorene	1.98 mg/kg	ND
4-Nitroaniline	9.90 mg/kg	ND
4,6-Dinitro-2-methylphenol	9.90 mg/kg	ND
N-Nitrosodiphenylamine	1.98 mg/kg	ND
4-Bromophenyl phenyl ether	1.98 mg/kg	ND
Hexachlorobenzene	1.98 mg/kg	ND
Pentachlorophenol	9.90 mg/kg	ND
Phenanthrene	1.98 mg/kg	ND
Anthracene	1.98 mg/kg	ND
Di-n-butylphthalate	1.98 mg/kg	ND
Pluoranthene	1.98 mg/kg	ND
Pyrene	1.98 mg/kg	ND
Butyl benzyl phthalate	1.98 mg/kg	ND
3,3'-Dichlorobenzidine	3.90 mg/kg	ND
Benzo(a) anthracene	~ · · · · · · · · · · · · · · · · · · ·	
	1.98 mg/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES IC.

Laboratory Number: June 26, 1989 Page three

Constituent	Dete	ximate ction it*	Concentration** Micrograms/Kilogram
Chrysene	1.98	mg/kg	ND
Di-n-octyl phthalate	1.98	mg/kg	ND
Benzo(b)fluoranthene	1.98	mg/kg	ND
Benzo(k)fluoranthene	1.98	mq/kg	ND
Benzo(a)pyrene	1.98	mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98	mg/kg	N D
Dibenz(a,h)anthracene	1.98	mg/kg	ND
Benzo(g,h,i)perylene	1.98	mg/kg	ND

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- ** ND = Not detected, below detection limit.



Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Greg W. Everett Project Manager

REPORT

TRUESDAIL LABORATURIES, INC.

C :MISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING



14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

CLIENT

SAMPLE B-5.2

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration** Micrograms/Rilogram
Phenol	1.98 m	ng/kg	ND
bis(2-Chloroethyl) ether		ng/kg	ND
2-Chlorophenol		ng/kg	ND
1,3-Dichlorobenzene		ng/kg	ND
1,4-Dichlorobenzene		ng/kg	ND
Benzyl Alcohol		ng/kg	ND
1,2-Dichlorobenzene		ng/kg	ND
2-Methylphenol		ng/kg	ND
bis(2-Chloroisopropyl) ether		ng/kg	ND
4-Methylphenol		ng/kg	ND
N-Nitroso-Di-N-propylamine		ng/kg	ND
Hexachloroethane		ng/kg	ND
Nitrobenzene		ng/kg	ND
Isophorone		ng/kg	ND
2-Nitrophenol		ng/kg	ND
2,4-Dimethylphenol		ng/kg	ND
Benzoic Acid		ig/kg	ND
bis(2-Chloroethyoxy)methane		ng/kg	ND
2,4-Dichlorophenol		ng/kg	ND
1,2,4-Trichlorobenzene		g/kg	ND

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^{**} ND = Not detected, below detection limit.

Laboratory Number: June 26, 1989 Page two

Constituent	Dete	ximate ction mit*	Concentration** Micrograms/Kilogram
Naphthalene	1.98	mg/kg	ND
4-Chloroaniline	3.90	mg/kg	ND
Hexachlorobutadiene	1.98	mg/kg	ND
4-Chloro-3-methylphenol	3.90	mg/kg	ND
2-Methylnaphthalene	1.98	mg/kg	ND
Hexachlorocyclopentadiene	1.98	mg/kg	ND
2,4,6-Trichlorophenol	1.98	mg/kg	ND
2,4,5-Trichlorophenol	1.98	mg/kg	ND
2-Chloronaphthalene	1.98	mg/kg	ND
2-Nitroaniline	9.90	mg/kg	ND
Dimethyl phthalate	1.98	mg/kg	ND
Acenaphthylene	1.98	mg/kg	ND
3-Nitroaniline	9.90	mg/kg	ND
Acenaphthene	1.98	mg/kg	ND
2,4-Dinitrophenol	9.90	mg/kg	ND
4-Nitrophenol	9.90	mg/kg	ND
Dibenzofuran	1.98	mg/kg	ND
2,4-Dinitrotoluene	1.98	mg/kg	ND
2,6-Dinitrotoluene	1.98	mg/kg	ND ND
Diethylphthalate	1.98	mg/kg	ND
4-Chlorophenyl phenyl ether	1.98	mg/kg	ND
Fluorene	1.98	mg/kg	ND
4-Nitroaniline	9.90	mg/kg	ND
4,6-Dinitro-2-methylphenol	9.90	mg/kg	ND
N-Nitrosodiphenylamine	1.98	mg/kg	ND
4-Bromophenyl phenyl ether	1.98	mg/kg	ND
Hexachlorobenzene	1.98	mg/kg	ND
Pentachlorophenol	9.90	mg/kg	ND .
Phenanthrene	1.98	mg/kg	ND
Anthracene	1.98	mg/kg	ND
Di-n-butylphthalate	1.98	mg/kg	ND
Fluoranthene	1.98	mg/kg	ND
Pyrene	1.98	mg/kg	ND
Butyl benzyl phthalate	1.98	mg/kg	ND
3,3'-Dichlorobenzidine	3.90	mg/kg	ND
Benzo(a) anthracene	1.98	mg/kg	ND
bis(2-ethylhexyl)phthalate	1.98	mg/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

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Laboratory Number: June 26, 1989 Page three

Constituent	Approximate Detection Limit*	Concentration** Micrograms/Kilogram
Chrysene	1.98 mg/kg	ND
Di-n-octyl phthalate	1.98 mg/kg	ND
Benzo(b)fluoranthene	1.98 mg/kg	ND
Benzo(k)fluoranthene	1.98 mg/kg	ND
Benzo(a)pyrene	1.98 mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98 mg/kg	ND
Dibenz(a,h)anthracene	1.98 mg/kg	ND
Benzo(g,h,i)perylene	1.98 mg/kg	ND

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Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Greg W. Everett Project Manager

REPORT

TRUESDAIL LABORATURIES, INC.

IEMISTS - MICROBIOLOGISTS - ENGINEERS



14201 FRANKLIN AVENUE TUBTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

CLIENT

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

CLIENT

SAMPLE B-4.4

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit	lon	Concentration** Micrograms/Kilogram		
Phenol	1.98 mg	g/kg	ND		
bis(2-Chloroethyl) ether	1.98 mg	g/kg	ND		
2-Chlorophenol	1.98 mg	g/kg	ND		
1,3-Dichlorobenzene	1.98 mg	g/kg	ND		
1,4-Dichlorobenzene	1.98 mg	j/kg	ND		
Benzyl Alcohol	3.90 mg	j/kg	ND		
1,2-Dichlorobenzene		/kg	ND		
2-Methylphenol	3.90 mg	;/kg	N D		
bis(2-Chloroisopropyl) ether	3.90 mg	/kg	ND		
4-Methylphenol	3.90 mg	/kg	ND		
N-Nitroso-Di-N-propylamine	3.90 mg	/kg	ND		
Hexachloroethane	3.90 mg	/kg	N D		
Nitrobenzene	3.90 mg		ND		
Isophorone	3.90 mg	/kg	ND		
2-Nitrophenol	3.90 mg	/kg	ND		
2,4-Dimethylphenol	3.90 mg	/kg	ND		
Benzoic Acid	9.90 mg	/kg	ND		
<pre>bis(2-Chloroethyoxy)methane</pre>	1.98 mg	/kg	ND		
2,4-Dichlorophenol	1.98 mg	/kg	ND		
1,2,4-Trichlorobenzene	1.98 mg	/kg	ND		

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Laboratory Number: June 26, 1989 Page two

Constituent	Dete	ection	Concentration** Micrograms/Kilogram
Naphthalene	1.98	mg/kg	ND
4-Chloroaniline	3.90	mg/kg	ND
Hexachlorobutadiene	1.98	mg/kg	ND
4-Chloro-3-methylphenol	3.90	mg/kg	ND
2-Methylnaphthalene	1.98	mg/kg	ND
Hexachlorocyclopentadiene	1.98	mg/kg	ND
2,4,6-Trichlorophenol	1.98	mg/kg	ND
2,4,5-Trichlorophenol	1.98	mg/kg	ND
2-Chloronaphthalene	1.98	mg/kg	ND
2-Nitroaniline	9.90	mg/kg	ND
Dimethyl phthalate	1.98	mg/kg	ND
Acenaphthylene	1.98	mg/kg	ND
3-Nitroaniline	9.90	mg/kg	ND
Acenaphthene	1.98	mg/kg	ND
2,4-Dinitrophenol	9.90	mg/kg	ND
4-Nitrophenol	9.90	mg/kg	ND
Dibenzofuran	1.98	mg/kg	ND
2,4-Dinitrotoluene	1.98	mg/kg	ND
2,6-Dinitrotoluene	1.98	mg/kg	ND
Diethylphthalate	1.98	mg/kg	ND
4-Chlorophenyl phenyl ether	1.98	mg/kg	ND
Fluorene	1.98	mg/kg	ND
4-Nitroaniline	9.90	mg/kg	ND
4,6-Dinitro-2-methylphenol	9.90	mg/kg	ND
N-Nitrosodiphenylamine	1.98	mg/kg	ND
4-Bromophenyl phenyl ether	1.98	mg/kg	ND
Hexachlorobenzene	1.98	mg/kg	ND
Pentachlorophenol	9.90	mg/kg	ND
Phenanthrene	1.98	mg/kg	ND
Anthracene	1.98	mg/kg	ND
Di-n-butylphthalate	1.98	mg/kg	ND
Fluoranthene	1.98	mg/kg	ND
Pyrene	1.98	mg/kg	ND
Butyl benzyl phthalate	1.98	mg/kg	ND ND
3,3'-Dichlorobenzidine	3.90	mg/kg	ND
Benzo(a) anthracene	1.98	mg/kg	ND
bis(2-ethylhexyl)phthalate	1.98	mg/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

Laboratory Number: June 26, 1989 Page three

Constituent	Dete	ximate ction it*	Concentration** Micrograms/Kilogram
Chrysene	1.98	mg/kg	ND
Di-n-octyl phthalate	1.98	mg/kg	ND
Benzo(b)fluoranthene	1.98	mg/kg	ND
Benzo(k)fluoranthene	1.98	mg/kg	ND
Benzo(a)pyrene	1.98	mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98	mg/kg	ND
Dibenz(a,h)anthracene	1.98	mg/kg	ND
Benzo(g,h,i)perylene	1.98	mq/kq	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Victor.

Greg W. Everett Project Manager

REPORT

RUESDAIL LABORATORIES, INC.



DATE

June 16, 1989

RECEIVED June 6, 1989

LABORATORY NO.

CLIENT

SAMPLE

Soil Sample

Project: Near G-3, 6/05/89, 2:25 PM

INVESTIGATION

BPA 418.1 for Total Petroleum Hydrocarbons

RESULTS

Parameter

CONCENTRATION, mg/L

Total Petroleum Hydrocarbons (418.1) 60.4

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

W. Everett, Gregory

Project Manager

Watter & Waste Laboratory

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REPORT

ESDAIL LABORATORIES, INC.

MICROBIOLOGISTS -



AREA CODE 714 . 730-6239 AREA CODE 213 . 225 - 1564 TRUELABS

DATE

June 16, 1989

RECEIVED

LABORATORY NO.

June 6, 1989

SAMPLE

CLIENT

Soil Hear G-3 Project:

Torrance,

INVESTIGATION

Purgeable Organics (Volatiles) by EPA 8240 Gas Chromatography/Mass Spectrometry

RESULTS

Constituent	Detection Limit* (mg/kg)	Concentration** Milligrams/Kilogram		
Acetone	0.300	ND		
Benzene	0.300	ND		
Bromodichloromethane	0.300	ND		
Bromoform	0.300	ND		
Bromomethane	0.300	ND .		
2-Butanone	0.300	ND		
Carbon Disulfide	0.300	ND		
Carbon Tetrachloride	0.300	ND		
Chlorobenzene	0.300	ND		
Chloroethane	0.300	ND		
2-Chlorethyvinyl ether	0.300	ND		
Chloroform	0.300	ND		
Chloromethane	0.300	ND		
Dibromochloromethane	0.300	ND		
1,1-Dichloroethane	0.300	ND		
1,2-Dichloroethane	0.300	ND		
1,1-Dichloroethene	0.300	ND		
trans-1,2-Dichloroethene	0.300	ND		
1,2-Dichloropropane	0.300	ND		

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ND = Not detected, below detection limit.

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007 000184

Constituent	Detection Limit*(mg/kg)	Concentration** Milligrams/Kilogram
cis-1,3-Dichloropropene	0.300	ND
trans-1,3-Dichloropropene	0.300	ND
Ethyl Benzene	0.300	· ND
2-Hexanone	0.300	ND
4-Methyl-2-pentanone	0.300	ND
Methylene Chloride	0.300	- ND
Styrene	0.300	ND
1.1.2,2-Tetrachloroethane	0.300	ND
Tetrachloroethene	0.300	ND
Toluene	0.300	ND
1.1.1-Trichloroethane	0.300	ND
1.1.2-Trichloroethane	0.300	ND
Trichloroethene	0.300	ND
Vinyl Acetate	0.300	ND
Vinyl Chloride	0.300	ND
Xylenes	0.300	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Gregory W. Everett Project Manager



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036

RECORD OF

	Phoenix, Arizona 85036				🔾	ļ
INC	Pricenix, Arizona 03030	Project Name	Number	Phase	Task	Subtask
		TORRANCE, COKE				
Date 8/11/89	Time 3:00 CM	CALL FROM NAME:	BEAVER			
Other Participants — Name/Location	n/Representing:	CALL FROM NAME: CALL TO BO OB Telephone Number:	N WES	NOUSK	7	
		Telephone Number: 9/6-	322 28	22	<i>T</i>	
		Company Name:	PT. 4 10		STRUI	/ ८ ६८
		Address: P.O. Dex	160	T. 75 CH2	occiey D	/V,
Topic PSRM, TTING	CF ALTSRUMTIUL	City SACRAMENTO				
TECHINOGY		State C	Zip Cod	94:	234-1	1320
Summary (Decisions & Specific Acti	ons Required by Named Persons):			RONLI		
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Required Action:			 			
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Distribution: Original to Project File Copy to Project Manager Copy to Preparer	☐ Other Distribution (By Preparer)			PAGE _	OF	

TREATMENT CELL DESIGN PARAMETERS

(REVISED)

1. SITE

- A. Proposed location of cell and use of area. Parking, landscaped, loading dock, etc. i.e. Geotechnical design criteria for subgrade.
- B. GW elevation at site of cell NOTE: use of area is related to cell size and soil type. That is if permeability of soil is low and dense, subgrade is required (high compaction) then the depth of the cell may be decreased thus increasing the surface.

2. SOIL

- A. Classification (sieve, hydrometer, & Attleberg Limits) of the contaminated soils. Sample should be representative mixture of all soils to be included in the cell for treatment.
- B. Permeability of compacted saturated soil.
- C. California Bearing Ratio (CBR) of the (soaked) compacted sample. Test may be required by the contractor to determine suitability of the soil for parking area subgrade. This may not be necessary if the cell is to be constructed in a low use or landscaped area. May not be necessary depending on soil classification.

MOITDURE

NOTES:

Procedure should be something like:

- 1. Determine optimum #10% for the desired geotechnical design. (Proctor)
- 2. Saturate sample, determine expansion and pressure via CBR.
- 3. Perform permeability test on column of compacted soil.

Permeability studies, performed in-situ, may not accurately represent the mixed and compacted soils to be included in the cell (fractures, if any, in the clay/silty soil may indicate higher permeability than what would be installed in the cell).

D. Oxygen consumption by the microorganisms with time. This will affect the design thickness of the contaminated soil within the cell.

May be possible if we can add nutrients of gaseous form, we may be able to do it without adding water. Requires co-ordination with WTI Bio-Engineer.



FILE NO.: _		·		. •
DATE SENT: _	8/10/84		e e e	
TIME SENT: _	11100	_		
VERIFIED TRANSMISSION (INITIALS)	l:			
	FAX	COVER LETTER		
TO: First	HACC.	FROM:	al Applications, 02154	Inc.
FAX NO:		_ FAX NO: 617-	-890-3918	
RE: REVISE	DATA I	VEEDS		
TOTAL NO. O	P PAGES (INCLUDI	NG THIS COVER L	STTER): (3)	
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TREATMENT CELL DESIGN PARAMETERS

(REVISED)

1. SITE

ć: '* 1

- A. Proposed location of cell and use of area.
 Parking, landscaped, loading dock, etc. i.e.
 Geotechnical design criteria for subgrade.
- B. GW elevation at site of cell NOTE: use of area is related to cell size and soil type. That is if permeability of soil is low and dense, subgrade is required (high compaction) then the depth of the cell may be decreased thus increasing the surface.

2. SOIL

A. Classification (sieve, hydrometer, & Attleberg limits) of the contaminated soils. Sample should be representative mixture of all soils to be included in the cell for treatment.

SISPE CHANGE

- B. Permeability of compacted saturated soil.
- C. California Bearing Ratio (CBR) of the (soaked) compacted sample. Test may be required by the contractor to determine suitability of the soil for parking area subgrade. This may not be necessary if the cell is to be constructed in a low use or landscaped area. May not be necessary depending on soil classification.

MOITPURE

NOTES:

Procedure should be something like:

- 1. Determine optimum H20% for the desired geotechnical design. (Proctor)
- 2. Saturate sample, determine expansion and pressure via CBR.
- 2. Perform permeability test on column of Compacted soil.

Permeability studies, performed in situ, may not accurately represent the mixed and compacted soils to be included in the cell (fractures, if any, in the clay/sixty soil may indicate higher permeability than what would be installed in the cell).

- 71

D. Oxygen consumption by the microorganisms with time. This will affect the design thickness of the contaminated soil within the cell.

May be possible if we can add nutrients of gaseous form, we may be able to do it without adding water. Requires co-ordination with WTI Bio-Engineer.



FILE NO.:	· ·
DATE SENT: 8/10/84	
TIME SENT: _///o-ri	·
VERIFIED TRANSMISSION: (INITIALS)	
	FAX COVER LETTER
TO: FORG HALL	FROM: A.
FAX NO:	FAX NO: 617-890-3918
RE: REVISE & DATA	NEEDS
TOTAL NO. OF PAGES (TNO	LUDING THIS COVER LETTER): (3)
	MS PLEASE CONTACT
COMMENTS:	

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8-10-89 JCF Torrence CA

TREATMENT CELL DESIGN PARAMETERS

1. SITE

- a. Proposed location of cell and use of area. (Parking, landscaped, loading dock, etc. ie. Geotechnical design criteria for subgrade.
- b. GW elevation at site of cell NOTE use of area is related to cell size and soil type. That is if permeability of soil is low and dense subgrade is required (high compaction) then the depth of the cell may be decreased thus increasing the surface.

2. 9DIL

- a. Classification (Gradation & Attleberg Limits) of the contaminated soils. Sample should be representative mixture of all soils to be included in the cell for treatment.
- b. Permeability of compacted soil soil
- c. California Bearing Ratio (CBR) of the (soaked) compacted sample. Test may be required by the contractor to determine suitability of the soil for parking area subgrade. This may not be necessary if the cell is to be constructed in a low-use or landscaped area.

NOTES

Procedure should be something like:

- 1. Determine optimum H20% for the desired geotechnical design. (Proctor)
- 2. Saturate sample, determine expansion and pressure via CBR
- 3. Perform permeability test on column of compacted soil

Permeability studies, performed in-situ may not accurately represent the mixed and compacted soils to be included in the cell (fractures in the clayey/silty soil may indicate higher permeability than what would be installed in the cell)

d. Oxygen consumption by the microorganisms with time. This will affect the design thickness of the contaminated soil within the cell.

10 August 1989

Western Technologies 3737 E. Broadway Road Phoenix, AZ 85036 Mr. Peter Beaver

RE: Proposal for line location.

Dear Mr. Beaver:

Spectrum Environmental Services, Inc. is pleased to submit the following estimated costs to conduct an investigation to determine the possible location of metallic subsurface lines on a previous refinery operations property in Torrance, CA. It is our understanding that the area to be surveyed is level, free of debris and vegetation and is approximately 1 to 1 1/4 acres.

Our approach to this investigation will be to delineate the surface trace of all locatable lines using electromagnetic conduction and induction techniques. The surface trace of the lines will be marked in the field with spray paint using standard color-coding.

Below are the estimated costs to conduct this investigation:

Item Rate Costs

7 hrs Travel/Labor Travel/Labor at \$175/hr \$1225.00

This cost is an estimate only. A firm fixed cost is available at 120% of the estimate total or \$1470.00. We look forward to working with Western Technologies on this project. Please call if I may be of further service, or answer any questions.

Sincerely,

Judy LeTourneau President



3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

July 28, 1989

Mr. Doc Quinn Quinn & Quinn Enterprises Inc. 3296 South Mooney Boulevard Suite 195 Visalia, California 93277

RE: COMMENTS REGARDING RSI REMEDIATION WORK PLAN, COCA-COLA FACILITY, 3220 MALAGA AVENUE, FRESNO, CALIFORNIA. JOB NO. 2179J289.

Dear Doc:

Pursuant to our meeting July 18, 1989 at the Fresno facility and following review of the existing data generated from previous investigations conducted by Kleinfelder and RSI following comments are offered.

In regards to Vadose zone remediation:

Area 1 - beneath the former fuel island as defined by Kleinfelder and proposed by RSI, Figure 1. Two (2) additional soil borings with samples and analytical chemistry are necessary to completely define the contaminant mass. Location of the proposed soil borings are presented in Figure 1.

Area 2 - adjacent to the existing 10,000-gallon underground diesel storage tank as defined by Kleinfelder and proposed by RSI, Figure 1. Additional analytical chemistry is necessary to determine the nature of the contaminant (gasoline or diesel) indicated in Kleinfelder lab report, MW-3 analytical analysis, Table 2 and 3. Additional soil samples could be collected either by placement of an additional boring in the immediate vicinity of MW-3 or during the excavation and removal of the diesel tank. However, the question should be addressed before installation of RSI's proposed remediation well RS-2, Figure 2.

In regards to groundwater remediation:

<u>Area 3</u> - groundwater degradation as indicated in vicinity of MW-2 and proposed by RSI, Figure 2. Irregardless of the regulators position on groundwater remediation, it is in Coca-Cola's best

Quinn & Quinn Enterprises Inc. Job No. 2179J289

interest to remediate the groundwater and Vadose zone contamination It is WTI's understanding that the proposed at the same time: "SAVE" system can remediate both contaminant phases, therefore, the proposed use of liquid phase carbon is unnecessary. However, this recommendation is offered only after preliminary investigation of the neighboring USTs, located immediately west of the site, support the theory that existing groundwater degradation is in fact at least partially the responsibility of Coca-Cola. Ιf preliminary investigation of the neighboring USTs result in some question as to the responsible party the issue should be addressed prior to installation of RSI's proposed remediation system. addition, before any groundwater remediation is undertaken an aquifer characterization study including a pump/recovery test and potential impact to surrounding property should be completed.

The estimated costs to complete the additional soil and groundwater contaminant characterization are \$40,000.00 to \$50,000.00.

In regards to Western Technologies Inc.'s responsibilities:

Work covered under RSI's contractual agreement with Coca-Cola are: 1) installation of a maximum of three (3) Vadose zone extraction wells (RS-1, RS-2 and B-17); 2) completion of a single groundwater extraction/monitor well (RS-1); 3) installation and monitoring of the proposed "SAVE" system; 4) preliminary investigation of neighboring USTs located immediately west of the site. It is WTI's understanding that all such work will be completed by RSI and that WTI will act in a quality assurance/quality control capacity. This role will include but not be limited to supervision of all field work practices, and protocols; collection of additional (split) soil, groundwater, influent vapor and effluent gases samples; review of all technical data and related reports. Following completion of each stage of field work or the review of related data/reports, WTI will generate a report including comments and recommendations. All such reports will be submitted to you for distribution.

It is WTI's understanding that work not covered under RSI's contractual agreement with Coca-Cola, such as additional site assessment/characterization work would be completed by Western Technologies Inc. Following completion of each phase of work WTI will submit to you a report detailing the results of the project including discussions and recommendations.

Quinn & Quinn Enterprises Inc. Job No. 2179J289

As always, it is our pleasure to work with you and Cal Tank Testing. If you have any questions regarding these comments, please call us at (602) 437-3737.

3

Sincerely,

WESTERN TECHNOLOGIES INC.

Michael S. Sewell

Senior Project Hydrogeologist

Environmental Engineering Services

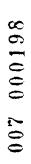
Steven M. Myers, R.G.

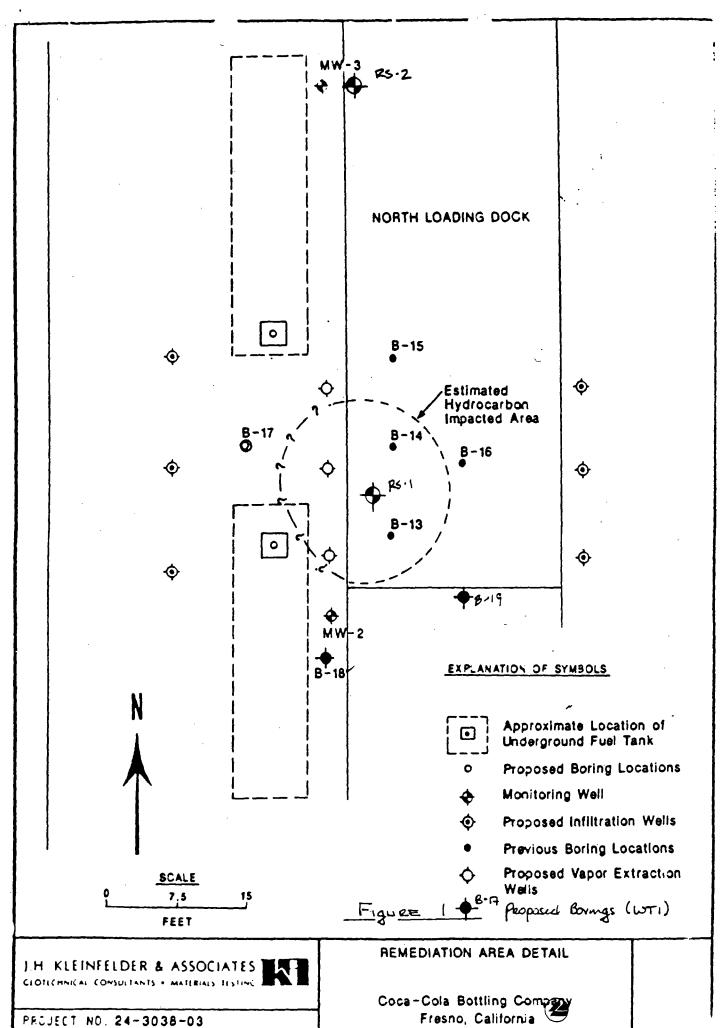
Director, UST and Groundwater Programs

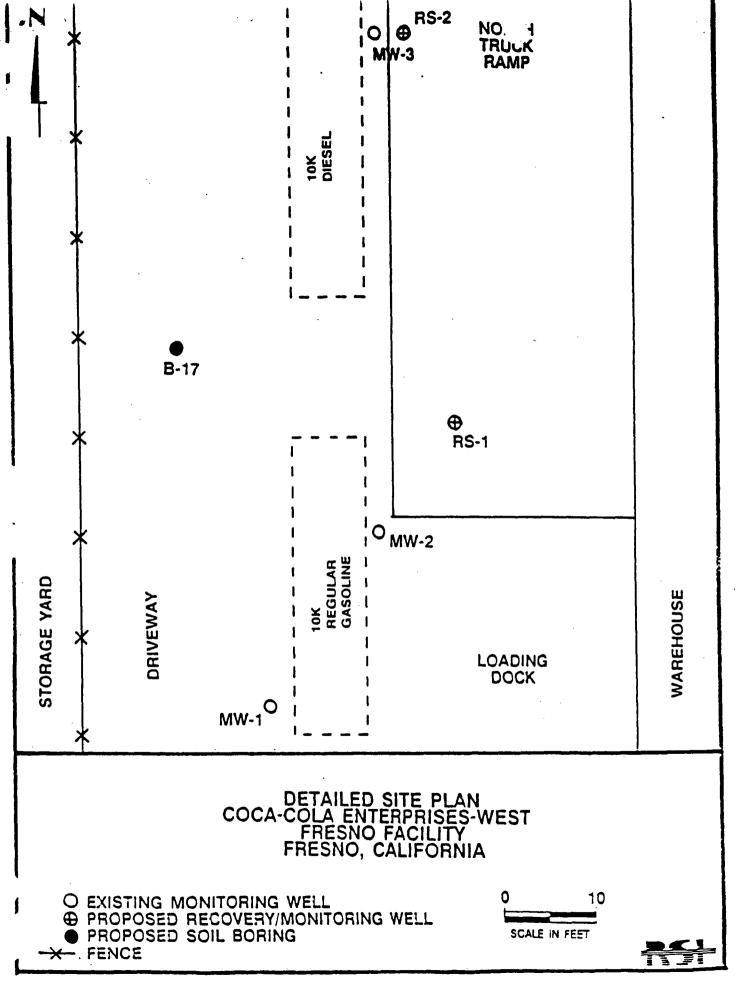
Steven M. Myers

Environmental Engineering Services

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Summary of Laboratory Results
for Soil Samples Taken While Drilling Monitoring Wells
Results given in parts per million.

Sample Well Depth					TEH				
	В	T	E	x	Gasoline	Diesel	TFH		
MW-1*	6.0								
	11.0	0.26	0.29	ND	0.21	.5		ND	
MW-1	16.0	0.036	0.06	ND	0.08	32		ND	
MW-1	21.0	0.035	0.047	ND	0.07	' 3 .		ND	
MW-1	26.0	ND	ND	ND	ND			ND	
MW-2*	6.0							3.0	
	10.5								
	16.0				,				
	21.0								
	26.0	ND	0.037	ND	ND	•		ND	
MW-3	6.0	1.3	27	21	149			2300	
MW-3	11.0	0.38	10	6.6	48	•		10500	
MW-3	16.0	3.1	72	29	192			. 5500	
MW-3	21.0	5.9	94	34	210			5500	
MW-3	26.0	ND	ND	ND	ND			ND	

^{* =} Composite samples

NOTE: Data is from Kleinfelder, March 1987.

B = Benzene

T = Toluene

E = Ethyl Benzene

X = Xylenes

TEH = Total Extractable Hydrocarbons

TFH = Total Fuel Hydrocarbons

ND = None Detected

^{-- =} Not Included in Analysis

TABLE 3

Summary of Laboratory Results
for Soil Samples Taken From Soil Borings

Results given in parts per million.

		,		,	-	TEH		
Boring	Sample Depth	В	T	E	x	Gasoline Di	esel	TFH
B-4*	6.0							
	11.0							
	15.0							
	21.0	ND	ND	ND	ND			ND
B-4	26.0							ND
B-5	15.5	ND	ND		ND	. 6		
B-6	15.5	ND -	ND		ND	ND		
B-7	20.0	ND	ND		ND	· 6		
B-8	15.5	ND	ND		ND	ND		
B-9	5.5	ND	ND		ND	11		
B-9	25.5	ND	ND		ND	7		
B-10	5.5	6.8	23		130	99		
B-10	30.5	ND	ND		ND	8		
B-11	20.5	ND	ND		ND	ND ·		
B-12	15.5	ND	ND		ND	8		
B-13	20.0	100	2100	550	3800	9000	58	51000
B-13	25.0	ND	350	180	1200	5900	46	19000
B-13	30.0	ND	48	54	330	4300	40	8800
B-14	20.0	ND	27	24	170	1400	28	3900
B-14	25.0	ND	ND	ND	ND	ND	ND	ND
B-14	30.0	ND	ND	ND	ND	ND	ND	ND
B-15	20.0	ND	ND	ND	ND	ND	ND	ND
B-15	25.0	ND	ND	ND	ND	ND	ND	ND
B-15	30.0	0.07	0.2	ND	ND	ND	ND	ND
B-16	20.0	0.1	0.8	ND	0.3	ND	ND	ND
B-16	25.0	ND	ND	ND	ND	ND	ND	ND
B-16	30.0	0.05	0.3	ND	ND	ND	ND	ND .

^{* =} Composite samples

NOTE: All data is from Kleinfelder reports dated 4-87, 10-87, and 4-88.

B = Benzene

T = Toluene

E = Ethyl Benzene

X = Xylenes

TEH = Total Extractable Hydrocarbons

TFH = Total Fuel Hydrocarbons

ND = None Detected

^{-- =} Not Included in Analysis

3737 East Broadway Road P.O. Box 21387 Phoenix, Arizona 85036 (602) 437-3737

DRAFT

July 25, 1989

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: TORRANCE, CALIFORNIA FACILITY. JOB NO. 2179J286.

Dear Raul:

As a result of our July 20 meeting in your office, WTI is recommending the construction of an on-site treatment cell to remediate the contaminated soil identified at the proposed Torrance, California facility. While not the least expensive of the three options presented, it is WTI's opinion that this technology will remediate the site and present the least liability to Coca-Cola.

Due to the complexity of this remedial process, we recommend that WTI assume the responsibility for the remediation portion of this project. We feel that your present consultant, Stoney-Miller Consultants, is well suited for the geotechnical and/or materials testing portion of the project.

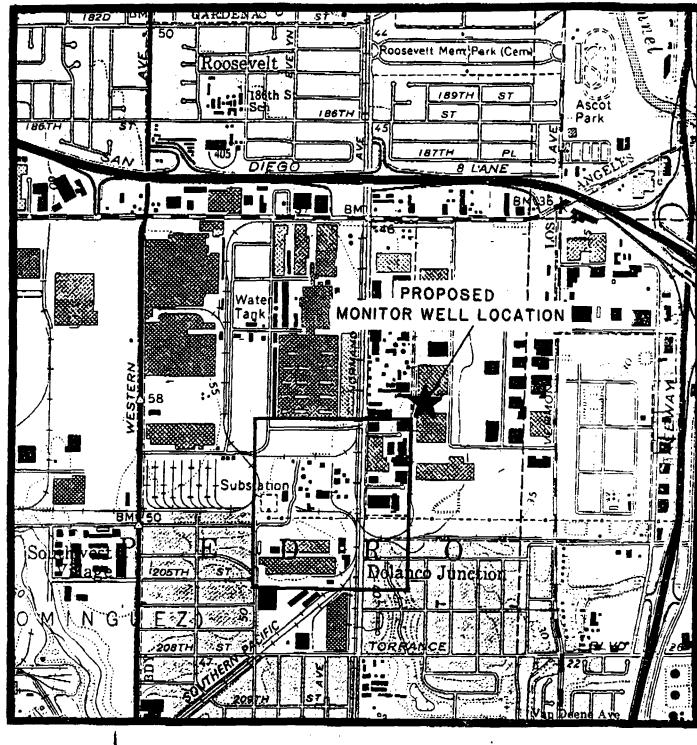
As always it is a pleasure to be of service to you and CCE - West. If you have any questions or require additional information, please call me at (602) 437-3737 ext. 315.

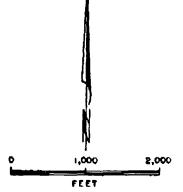
Sincerely,

WESTERN TECHNOLOGIES INC.

Steven M. Myers, R.G. Director, UST and Groundwater Programs Environmental Engineering Services

/weh





MONTROSE, CALIFORNIA TORRANCE, CALIFORNIA

APPROXIMATE LOCATION
OF STUDY AREA

HARGIS + ASSOCIATES, INC. Consultants in Hydrogeology San Dega, Cofformio

7/89 FIGURE I

PREPARED BY______REVIEWED BY

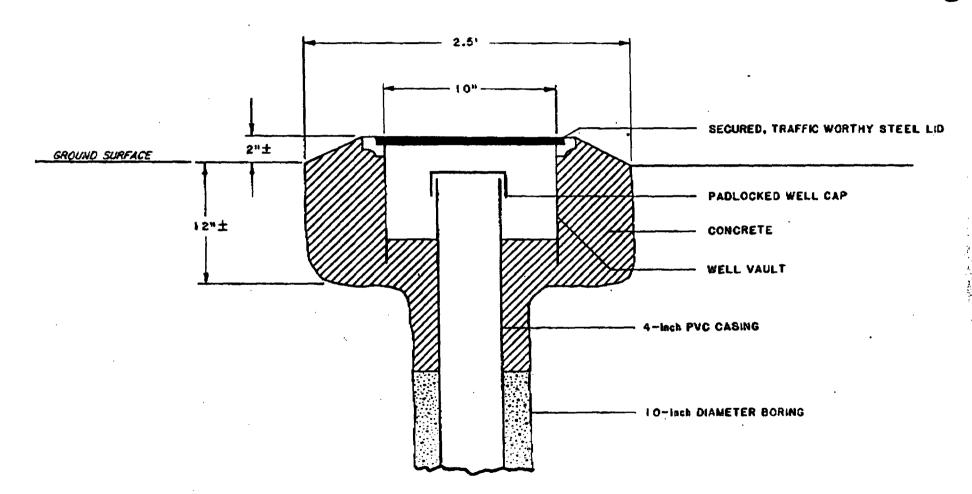


FIGURE 2. CROSS SECTIONAL VIEW OF MONITOR WELL COMPLETION



HARGIS + ASSOCIATES, INC.

Mr. Matt Fanoe July 18, 1989 Page 2

Routine future access to the monitor well to collect groundwater samples will also be necessary. Coca-Cola Bottling Company will be given ample notice before any sampling activities take place.

Hargis + Associates, Inc. will telephone you later this week to confirm receipt of this letter and to further discuss this matter. If you have any questions in the interim, please contact Roger Niemeyer. Matthew Wiedlin, or myself. Hargis + Associates, Inc. looks forward to cooperating with you on with matter.

Sincerely,

HARGIS + ASSOCIATES, INC.

Rush N. Boynton Hydrogeologist

RNB/elm

Enclosures

cc: Karl Lytz, Latham & Watkins
Dan Greeno, Montrose Chemical Co.
Johanna Miller, EPA Region IX

fanoe.1tr



HARGIS + ASSOCIATES, INC.

2223 Avenida De La Playa, Suite 300 La Jolla, California 92037 (619) 454-0165 Telecopier (619) 454-5839 David R. Hargis, Ph.D., R.G. Michael R. Long, R.G. Terry M. Turner, R.G. Roger A. Niemeyer, R.G. Lea S. Leanhart, Ph.D., R.G. Lonae J. Raymand Peter T. Quinlan Mary F. Jones, Ph.D., R.E.A. Timothy T. Jarvis, Ph.D., R.E.A.

Let's Allus Let's Allus

July 18, 1989



VIA FEDERAL EXPRESS

Mr. Matt Fanoe COCA-COLA ENTERPRISES One Coca-Cola Plaza, CCE-819 Atlanta, GA 30301

Re: Request for Property Access to Install a Groundwater Test Well

Dear Mr. Fanoe:

In regards to our telephone conversation of July 14, 1989, the following is the request for access which I mentioned. Please review and forward it to the necessary personnel within your company.

Pursuant to an administrative order from the United States Environmental Protection Agency (EPA) issued to Montrose Chemical Corporation of California (Montrose), this letter is a request for access to the property shown as owned by Coca-Cola Bottling Company of Los Angeles, Torrance, California. The purpose of the requested access is to install and sample, on a regular basis, one groundwater monitor well. The well is part of a groundwater investigation conducted by Montrose and overseen by the EPA that presently includes approximately 60 existing and proposed monitor wells in the immediate area (Figure 1).

The monitoring well is proposed for the northwest portion of the Coca-Cola Bottling Company property located at 19899 Pacific Gateway Drive, in Torrance, California. The field work required under the order involves access for: 1) a small truck mounted hollow stem auger drill rig, operated by sub-contractors to Hargis + Associates, Inc.; 2) Hargis + Associates, Inc. field personnel; and 3) EPA oversight personnel. The initial field work should involve no more than one week, and is planned to commence in late August or early September of 1989. The name and address of the proposed drilling contractor is: Beylik Drilling, Inc., 591 South Walnut, La Habra, California 90631.

The site will be restored to as near its original condition as possible before the field crews leave the property. An example of the proposed surface completion for the monitor wells has been provided (Figure 2).

Other Offices:

Tucson, Arizona Phoenix, Arizona Sas Angeles, California Sast lake City, Utah

007 000206

Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scanduse, Chief Bite Mitigation Unit Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

1.54 1.54

TATHER CAPECIAL HEATH AND WINDS AGENCY

GEORGE DEUKWERAN, GO

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION A SERVICE FROM OWAY FULLE SECTION CONDIDEACH, CA. 90802

July 21, 1989

क पिताली है, पिएटा, रिक्ट onay Miller (consultants) Inc. 14 Huches Suite Bal rvine California 92718

ver er er

Dear Mr. Miller

KENTANN VOORKED EXOFERN OF COM COM ENTERENTEES IN THE CARSON TORRANCE AREA OF THE CAME OF TOS INCOMES, CAME TO THE 1997S PACIFIC CAMENAY DRIVE

एक क्षेत्रपत क्रियाची होता है कि प्रमान कि प्रमान क्षित्र कि प्रमान कि कि प्रमान कि कि प्रमान कि कि कि कि कि कि ত্য**্রে** ব্রা**র্থাপু গ্রু** পুরুষ দের দেশে পাঁও প্রেপ্তরায় ব্রা

Your property life arent 1,400 (est moved of the pel Amo Hazardous Waste Site (missite consigned waste) (describing of the stypes) of wastes of wastes disposed in these ponds include volatile and semi volatile organic substances such as benzere, styrans and napithalene, it is believed that the complex covered the semire area borders by 190th Street sto the north Dal Amo Boilevard to the south Normandle Avenua to the west, and Vermont Avenue and Hamilton Avenue to the east a Documents in our files indicate that there were manufacturing areas inderground and above ground tanks underground lines, and soos bless numers that and possible sumps that may be sources of soil and ground water contamination of Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances balleved to have originated from the

Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (INS) Trace Substances Control Division is also evaluating the entire area of the former rubest manufacturing complex as a source of ground water contamination, and high levels of manthalene and phenanthrene that you discovered at the Subject Acation may be associated with the synthetic rubbar manufacturing coarations once conducted on your property because these same (chemicals were also cound at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the typestof past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

STATE OF CAUPORNIA—HEALTH AND WELFARE AGENCY

OFOROS DEUKHLIAN ON

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4 845 WEST BROADWAY, SUITE \$50 LONG BEACH, CA 90802 (213) 590-4448

July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attn: Gary Carlin

Dear Mr. Miller:

Spirit.

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALIFORNIA AT 19875 PACIFIC GATEWAY DRIVE

We have completed our review of your letter report, hand delivered to this office on July 11, 1989 and have the following comments.

Your property lies about 1,300 feet north of the Del Amo Hazardous Waste Site. This site consists of waste disposal ponds and sumps that were used by a former synthetic rubber manufacturing complex. The types of wastes disposed in these ponds include volatile and semi-volatile organic substances such as benzene, styrene and naphthalene. It is believed that the complex covered the entire area bordered by 190th Street to the north, Del Amo Boulevard to the south, Normandie Avenue to the west, and Vermont Avenue and Hamilton Avenue to the east. Documents in our files indicate that there were manufacturing areas, underground and above ground tanks, underground lines, and possible sumps that may be sources of soil and ground water contamination. Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances believed to have originated from the disposal ponds and sumps.

Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scandusa, Chief Site Mitigation Unit

Region 4 (Long Beach) Toxic Substances Control Division

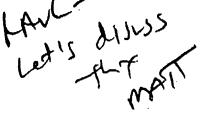
Enclosure

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HARGIS + ASSOCIATES, INC.

2223 Avenida De La Playa, Suite 300 La Jolla, California 92037 (619) 454-0165 Telecopier (619) 454-5839 David R. Hargis, Ph.D., R.G. Michael R. Long, R.G. Terry M. Turner, R.G. Roger A. Niemeyer, R.G. Leo S. Leonhart, Ph.D., R.G. Lance J. Raymand Peter T. Quintan Mary F. Jones, Ph.D., R.E.A. Timothy T. Jarvis, Ph.D., R.E.A.



July 18, 1989



VIA FEDERAL EXPRESS

Mr. Matt Fanoe COCA-COLA ENTERPRISES One Coca-Cola Plaza, CCE-819 Atlanta, GA 30301

Re: Request for Property Access to Install a Groundwater Test Well

Dear Mr. Fanoe:

In regards to our telephone conversation of July 14, 1989, the following is the request for access which I mentioned. Please review and forward it to the necessary personnel within your company.

Pursuant to an administrative order from the United States Environmental Protection Agency (EPA) issued to Montrose Chemical Corporation of California (Montrose), this letter is a request for access to the property shown as owned by Coca-Cola Bottling Company of Los Angeles, Torrance, California. The purpose of the requested access is to install and sample, on a regular basis, one groundwater monitor well. The well is part of a groundwater investigation conducted by Montrose and overseen by the EPA that presently includes approximately 60 existing and proposed monitor wells in the immediate area (Figure 1).

The monitoring well is proposed for the northwest portion of the Coca-Cola Bottling Company property located at 19899 Pacific Gateway Drive, in Torrance, California. The field work required under the order involves access for: 1) a small truck mounted hollow stem auger drill rig, operated by sub-contractors to Hargis + Associates, Inc.; 2) Hargis + Associates, Inc. field personnel; and 3) EPA oversight personnel. The initial field work should involve no more than one week, and is planned to commence in late August or early September of 1989. The name and address of the proposed drilling contractor is: Beylik Drilling, Inc., 591 South Walnut, La Habra, California 90631.

The site will be restored to as near its original condition as possible before the field crews leave the property. An example of the proposed surface completion for the monitor wells has been provided (Figure 2).

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HARGIS+ASSOCIATES, INC.

Mr. Matt Fanoe July 18, 1989 Page 2

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Hargis + Associates, Inc. will telephone you later this week to confirm receipt of this letter and to further discuss this matter. If you have any questions in the interim, please contact Roger Niemeyer, Matthew Wiedlin, or myself. Hargis + Associates, Inc. looks forward to cooperating with you on with matter.

Sincerely,

HARGIS + ASSOCIATES, INC.

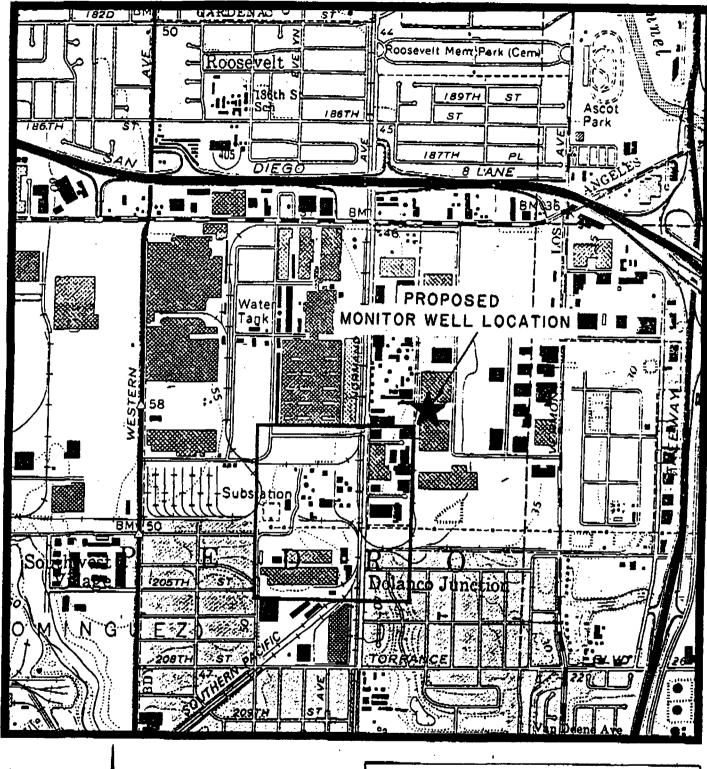
Rush N. Boynton Hydrogeologist

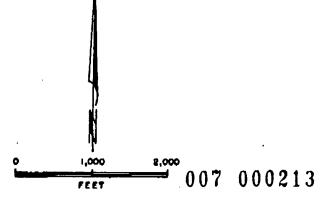
RNB/elm

Enclosures

cc: Karl Lytz, Latham & Watkins
Dan Greeno, Montrose Chemical Co.
Johanna Miller, EPA Region IX

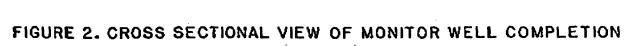
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MONTROSE, CALIFORNIA TORRANCE. CALIFORNIA

APPROXIMATE LOCATION OF STUDY AREA





(212) 880-4868

DEPARTMENT OF HEALTH SERVICES TOXIC BURSTANCES CONTROL DIVISION REGION 4
845 WEST BROADWAY, SUITE \$50
LONG BEACH, CA 90802

July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attn: Gary Carlin

Dear Mr. Miller:

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALIFORNIA AT 19875 PACIFIC GATEWAY DRIVE

We have completed our review of your letter report, hand delivered to this office on July 11, 1989 and have the following comments.

Your property lies about 1,300 feet north of the Del Amo Hazardous Waste Site. This site consists of waste disposal ponds and sumps that were used by a former synthetic rubber manufacturing complex. The types of wastes disposed in these ponds include volatile and semi-volatile organic substances such as benzene, styrene and naphthalene. It is believed that the complex covered the entire area bordered by 190th Street to the north, Del Amo Boulevard to the south, Normandie Avenue to the west, and Vermont Avenue and Hamilton Avenue to the east. Documents in our files indicate that there were manufacturing areas, underground and above ground tanks, underground lines, and possible sumps that may be sources of soil and ground water contamination. Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances believed to have originated from the disposal ponds and sumps.

Because of the contaminant problems associated with the Dal Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

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Toxic Substances Control Division

Enclosure



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3

HARGIS + ASSOCIATES, INC.

Mr. Matt Fanoe July 18, 1989 Page 2

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HARGIS + ASSOCIATES, INC.

Rush N. Boynton Hydrogeologist

RNB/elm

Enclosures

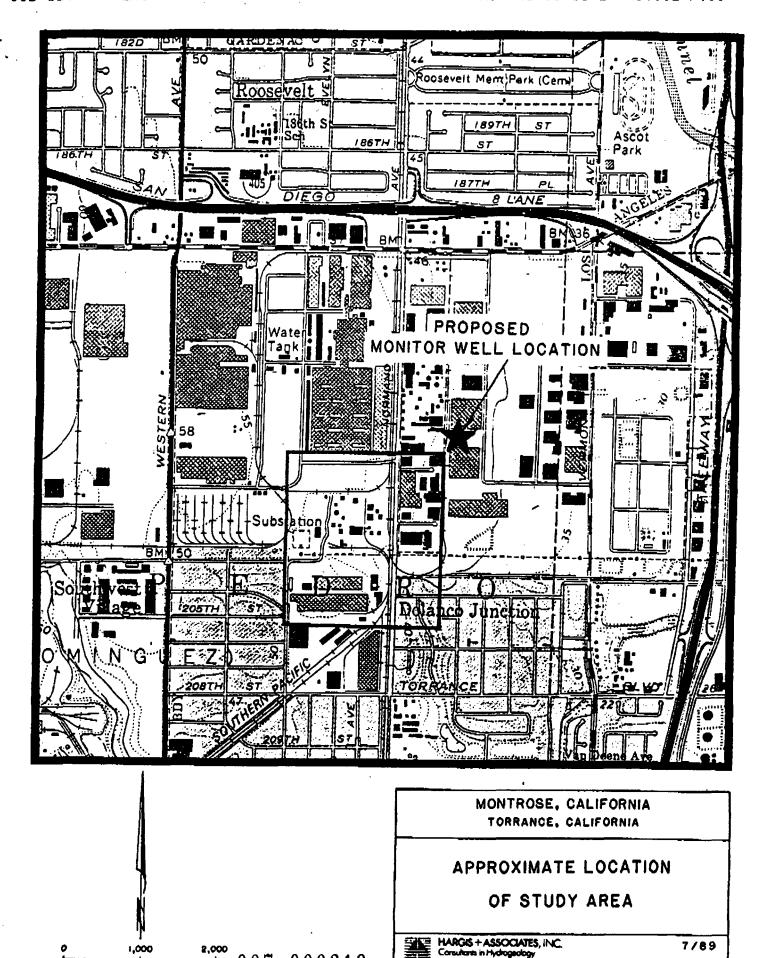
cc: Karl Lytz, Latham & Watkins
Dan Greeno, Montrose Chemical Co.
Johanna Miller, EPA Region IX

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7/89

FIGURE I

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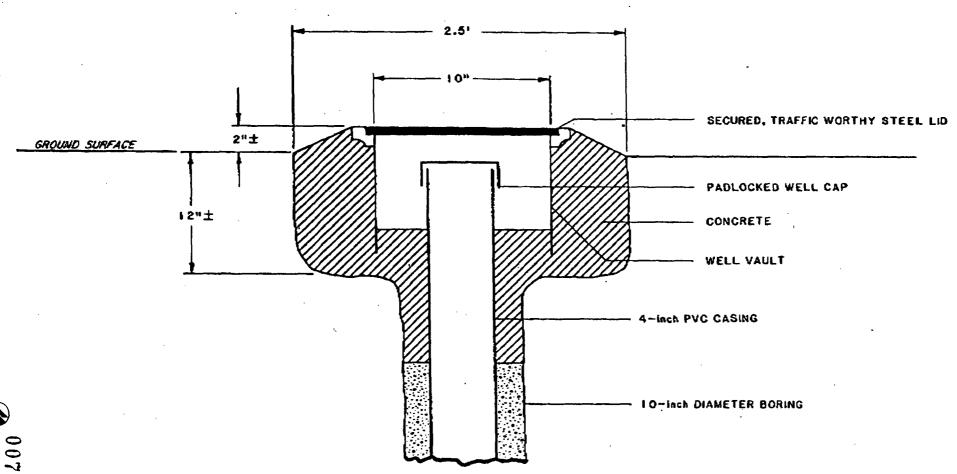


FIGURE 2. CROSS SECTIONAL VIEW OF MONITOR WELL COMPLETION

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rom	O. BEAVER
Department_	Extension
Date	Time

please call (602) 437-3737

ENVIRONMENTAL FAX # (602) 437-3140

721.0526

leachate was extracted, and has at least the same classification under Article 3 of this subchapter as the units from which leachate was extracted; and

(2) the discharge to a different waste management unit is approved by the regional board; and

(3) the discharge of leachate to a different waste management unit shall not exceed the moisture-holding capacity of the receiving unit, and shall comply with Subsection 2520(d) of this subchapter.

2544. Interim Cover

- (a) Interim cover at landfills is daily cover and intermediate cover as defined by the California Waste Management Board.
- (b) Interim cover over waste discharged to a landfill shall be designed and constructed to minimize percolation of precipitation through wastes.
- (c) Class I waste piles shall be covered as necessary to prevent percolation precipitation through wastes. Cover may be required by regional boards for Class II waste piles.
- (d) Requirements for final cover are given in Subsection 2581(a) of this subchapter.

2545. Subsurface Barriers.

- (a) Subsurface barriers are cutoff walls or grout curtains which are used in conjunction with natural geologic materials to assure that lateral permeability standards specified in Article 3 of this subchapter are satisfied. Subsections (b) and (c) specify conditions under which cutoff walls and grout curtains are used.
 - (b) Cutoff walls
- (1) Cutoff walls are required at Class I waste management units where there is potential for lateral movement of fluid, including waste or leachate. Cutoff walls are required at Class II waste management units where there is potential for lateral movement of fluid, including waste or leachate, and the permeability of natural geologic materials is used for waste containment in lieu of a liner. Cutoff walls shall be installed at Class III landfills as required by regional boards.

- (2) Cutoff walls shall be:
- (A) a minimum of two feet thick for clay materials; or
- (B) a minimum of 40 mils thick for synthetic materials; and
- (C) keyed a minimum of five feet into natural geologic material which satisfies the applicable permeability requirements in Article 3 of this subchapter.
- (3) If cutoff walls are used, excavations for waste management units shall be keyed into natural geologic materials which satisfy applicable permeability requirements in Article 3 of this subchapter.
- (4) At closure of a waste pile or surface impoundment, all contaminated natural geologic materials present between the cutoff wall(s) and the waste shall be removed and disposed of at an authorized location, or the waste management unit shall be closed as a landfill.
- (5) Cutoff walls shall have fluid collection systems installed upgradient of the structure. The systems shall be designed, constructed, operated, and maintained to prevent the buildup of hydraulic head against the structure. The collection system shall be inspected regularly, and accumulated fluid shall be removed.
 - (c) Grout Curtains
- (1) Grout curtains may be used as needed to prevent lateral waste movement through fractures in natural geologic materials that otherwise satisfy applicable permeability requirements in Article 3 of this subchapter. Only fractures that are at or near the surface and are of limited vertical extent may be grouted.
- (2) The acceptability of grout curtains for a waste management unit shall include consideration of:
 - (A) depth and nature of fracturing; and
 - (B) fracture orientation.
- (3) Grout characteristics shall not be adversely affected by fluid, including waste and leachate, or natural conditions.
- (4) Optimum grouting pressure and placement of grout holes shall be determined by test grouting.

2546. Precipitation and Drainage Controls.

(a) Waste management units and containment structures shall be designed and constructed to limit, to the

greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, washout, and overtopping under the precipitation conditions specified in Table 4.1 of this article for each class of waste management unit.

- (b) Precipitation on landfills or waste piles which is not diverted by covers or drainage control systems shall be collected and managed through the leachate collection and removal system, which shall be designed and constructed to accommodate precipitation conditions specified in Table 4.1 of this article for each class of waste management unit.
- (c) Diversion and drainage facilities shall be designed and constructed to accommodate the anticipated volume of precipitation and peak flows from surface runoff under the precipitation conditions specified in Table 4.1 of this article for each class of waste management unit.
- (d) Collection and holding facilities associated with precipitation and drainage control systems shall be emptied immediately following each storm or otherwise managed to maintain the design capacity of the system.
- (e) Surface and subsurface drainage from outside of a waste management unit shall be diverted from the waste management unit.
- (f) Cover materials shall be graded to divert precipitation from the waste management unit, to prevent ponding of surface water over wastes, and to resist erosion as a result of precipitation with the return frequency specified in Table 4.1 of this article for each class of waste management unit.

2547. Seismic Design

(a) Class I and II waste management units shall be designed to withstand the maximum credible earthquake without damage to the foundation or to the structures which control leachate, surface drainage, erosion, or gas. Class III waste management units shall be designed to withstand the maximum probable earthquake without damage to the foundation or to the structures which control leachate, surface drainage, erosion, or gas.

2548. Special Requirements for Surface Impoundments.

(a) Surface impoundments shall have sufficient free-board to accommodate seasonal precipitation and pre-

cipitation conditions specified for each class of waste management unit in Table 4.1 of this article but in no case less than 2 feet (measured vertically), and shall be designed and constructed to prevent overtopping as a result of wind conditions likely to accompany such precipitation conditions. A freeboard of less than 2 feet may be allowed at interior surface impoundments of a waste management facility where potential overflows would be to exterior surface impoundments, the operation implements a properly developed water balance plan, and the facility is provided with a fail-safe emergency retention area solely for the purpose of containing wastes due to surface impoundment failures.

- (b) An operation plan shall be submitted to the regional board which will provide operation levels and waste imput quantities permitted each month based on anticipated precipitation and on past precipitation conditions for the year.
- (c) Direct pipeline discharge to surface impoundments shall be either equipped with devices or shall have fail-safe operating procedures to prevent overfilling. Discharges shall be stopped in the event of any containment system failure which causes a threat to water quality.
- (d) There shall be no discharge from a surface impoundment except as authorized by waste discharge requirements.
- (e) Surface impoundments shall be designed and constructed to prevent scouring of containment structures at points of discharge into the impoundments and by wave action at the waterline.
- (f) All visible portions of synthetic liners shall be inspected weekly until all free liquid is removed from the surface impoundment as part of closure pursuant to Subsection 2582(a) of this subchapter. If, during the active life of the impoundment, the wastes are removed and the bottom of the impoundment cleaned down to the liner, an inspection shall be made of the bottom of the liner prior to refilling of the impoundment.

2549. Special Requirements for Land Treatment Facilities.

(a) Dischargers operating land treatment facilities shall comply with the general criteria specified in Subsections 2541(a) and (d) of this article, with the precipi-

tation and drainage controls specified in Section 2546 of this article, and with the seismic design criteria in Section 2547 of this article.

(b) Dischargers shall design, construct, operate, and maintain land treatment units to maximize the degradation, transformation, and immobilization of waste constituents in the treatment zone. Dischargers shall design, construct, operate, and maintain units in accord with all design and operating conditions that were used in treatment demonstrations under Section 2532 of this subchapter.

Article 5. Water Quality Monitoring for Classified Waste Management Units

2550. Applicability.

- (a) The siting, design, construction, and operation standards contained elsewhere in this subchapter and in Title 22 of this code are intended to prevent adverse impacts on water quality. The water quality protection provisions of this article are intended to detect leaks at waste management units and to provide a corrective action program should containment features fail to prevent leakage of wastes from waste management units. Owners and operators of new and existing landfills. waste piles, and surface impoundments shall monitor ground and surface water according to the provisions of the article, and shall perform unsaturated zone monitoring according to the provisions of this article as feasible. In determining whether unsaturated zone monitoring is feasible, the distance to ground water, the permeability of natural geologic materials, and the ease of installation of unsaturated zone monitoring devices shall be considered. Owners and operators of new and existing land treatment facilities shall monitor ground water, surface water, and the unsaturated zone according to the provisions of this article. The unsaturated zone requirements of this article are not applicable to Class I land treatment units.
- (b) Owners and operators of Class I waste management units shall comply with the provisions of this article. Owners and operators of Class II and Class III units may be allowed to conduct the analytical and

statistical portions of their monitoring program according to alternative procedures, provided that the alternative procedures accurately represent background water quality and water quality downgradient of waste management units. Alternative analytical and statistical procedures shall provide leak detection consistent with the prescribed procedures.

- (c) A land treatment waste management unit is not required to comply with the post-closure monitoring provisions of this article if the regional board fins that the treatment zone soil does not contain concentration of waste constituents at closure that are above background levels of those constituents by an amount that is statistically significant, and if the unsaturated zone monitoring program has not shown a statistically significant increase in waste constituents below the treatment zone during the operating life of the unit.
- (d) The regulations under this article apply during the active life of the waste management unit (including the closure period). After closure of the waste management unit, the regulations in this article apply during the postclosure maintenance period unless all waste, waste residues, contaminated containment system components, and contaminated geologic materials have been removed or decontaminated at closure.

2551. Required Programs.

- (a) Dischargers subject to this subchapter shall conduct the following programs in accordance with the provisions of Section 2555 and other applicable provisions of this article:
- (1) The discharger shall institute a detection monitoring program. Details of the program shall be approved by the regional board.
- (2) If indicator parameters or waste constituents are detected at the compliance points in excess of the water quality protection standards, the discharger shall institute a verification monitoring program.
- (3) If verification monitoring establishes that any water quality protection standard has been exceeded at or downgradient of the points of compliance, the discharger shall institute a corrective action program.
- (b) Waste discharge requirements shall include one or more of the programs identified in subsection (a) of this section and shall specify the circumstances under which each of the programs shall be required. In deciding

Article 4. Construction Standards

2540. General Construction Criteria

- (a) Class I and Class II waste management units shall be designed and constructed to prevent migration of wastes from the waste management units to adjacent geologic materials, ground water, or surface water, during disposal operations, closure, and the post-closure maintenance period.
- (b) Each Class II waste management unit shall be designed and constructed for the containment of the specific wastes which will be discharged.
- (c) Class III landfills shall have containment structures which are capable of preventing degradation of waters of the state as a result of waste discharges to the landfills if site characteristics are inadequate.
- (d) New landfills, waste piles, and surface impoundments shall comply with the requirements of this article. Existing waste piles and surface impoundments shall be fitted with liners and leachate collection and removal systems as described in Section 2542 and 2543 of this article as feasible. Existing landfills and waste piles shall have interim cover as described in Section 2544 of this article. Existing landfills, waste piles, and surface impoundments shall be fitted with subsurface barriers as described in Section 2545 of this article as needed and feasible, and shall have precipitation and drainage control facilities as described in Section 2546 of this article. Existing surface impoundments shall comply with Section 2548 of this article. New and existing land treatment units shall comply with Section 2549 of this article. All existing waste management units shall comply with the seismic design criteria in Section 2547 of this article.
- (e) Containment structures shall be designed by and construction shall be supervised and certified by a registered civil engineer or a certified engineering geologist. Facilities shall receive a final inspection and approval of the construction by regional board or State Board staff before use of the facility commences.
- (f) The integrity of containment structures shall be maintained. Excavations made as part of discharge operations shall not result in removal of any portion of a containment structure.

2541. General Criteria for Containment Structures.

- (a) Materials used in containment structures shall have appropriate chemical and physical properties to ensure that such structures do not fail to contain waste because of pressure gradients (including hydraulic head and external hydrogeologic forces), physical contact with the waste or leachate, chemical reactions with soil and rock, climatic conditions, the stress of installation, and the stress of daily operation.
- (b) Permeabilities specified for containment structures other than cover shall be relative to the fluids, including waste and leachate, to be contained. Permeabilities specified for final cover shall be relative to water.
- (c) Permeabilities shall be determined primarily by appropriate field test methods in accordance with accepted civil engineering practice. The results of laboratory tests with both water and leachate, and field tests with water, shall be compared to evaluate how the field permeabilities will be affected by leachate. Appropriate compaction tests may be used in conjunction with laboratory permeability tests to determine field permeabilities as long as a reasonable number of field permeability tests are also conducted. One acceptable method for testing the compatability of leachate and clay liners (including the permeability of the liner to leachate) is given in Appendix I.
- (d) Earthen materials used in containment structures other than cutoff walls and grout curtains shall consist of a mixture of clay and other suitable fine-grained soils which have the following characteristics, and which, in combination, can be compacted to attain the required permeability when installed. Liners made of such materials are referred to as "clay liners" in this subchapter.
- (1) At least 30 percent of the material, by weight, shall pass a No. 200 U.S. Standard sieve.
- (2) The materials shall be fine-grained soils with a significant clay content and without organic matter, in the "SC" (clayey sand), "CL" (clay, sandy or silty clay), or "CH" (clay, sandy clay) classes of the United Soil Classification system.
- (e) Construction standards for waste management units other than land treatment are given on Table 4.1 and in Figures 4.1 and 4.2.

Waste Mgmi Unit Classification	Type of Waste Manage- ment Unit	Clav Liner (2)	Synthetic Liner	Leachate Collection and Removal System	Interim Cover	Subsurf Cutoff Walls	Grout Curtains	Capacity of Precipitation — and Drainage Control Facilities	Seismic Design
Class I	Landfill	required, ≤1 × 10 ⁻⁷ cm/sec	required ⁽⁷⁾	required, blanket type	required	≤1 × 10 ⁻⁷ cm/sec (10)	≤1 × 10 ⁻⁷ em/sec	probable maximum precipitation	withstand maximum credible earthquake
	Surface Impoundment	double liner (3) <1 × 10 ⁻⁷ cm/sec	required (A)	required, blanket type		$\leq 1 \times 10^{-7}$ cm/sec (10)	$\leq 1 \times 10^{-7}$ cm/sec		
	Waste Pile	optional (4), $\leq 1 \times 10^{-17}$ cm/sec	may be (9) required	required, blanket type	required	$\leq 1 \times 10^{-7}$ cm/sec (10)	$\leq 1 \times 10^{-7}$ cm/sec		
Surface Impou	Landfill	required (5), ≤1 × 10 ⁻⁶ cm/sec	not required	required, blanket type	required	≤1 × 10 ⁻⁶ cm/sec(11)	≤1 × 10 ⁻⁶ cm/sec	1000-year, 24-hour precipitation	
	Surface Impoundment	double or single required (6), ≤1 × 10 ⁻⁵ cm/sec	not required	required with double liner, blanket type		$\leq 1 \times 10^{-6}$ cm/sec(11)	≤1 × 10 ⁻⁶ cm/sec		
	Waste Pile	optional (4) (5), $\leq 1 \times 10^{-6}$ cm/sec	not required	may be required, blanket type	may be required	≤1 × 10 ⁻⁶ cm/sec(11)	≤1 × 10 ⁻⁶ cm/sec		
Class III	Landfill	optional, ≤1 × 10 ⁻⁶ cm/sec (see Section 2533)	not required	required if liner is required, blanket, or dendritic	required	≤1 × 10 ⁻⁶ cm/sec if required	≤1 × 10 ⁻⁶ cm/sec if required	100-year, 24-hour precipitation (12)	withstand maximum probable earthquake

¹ Applicable regulations in this article may provide for exemptions to certain requirements. Subsection 2540(d) of this article describes applicability to existing facilities.

² All permeabilities specified in this table are maximum allowable permeabilities.

³ Outer liner shall be a clay liner; inner liner may be a synthetic liner instead of a clay liner if inspected according to Subsection 2548(f) of this article.

A synthetic liner alone may be allowed based on nature of waste to be contained and duration of the operation. A waste pile with a synthetic liner alone may not be closed as a landfill pursuant to Section 2583 of this subchapter. The synthetic liner permeability shall be the same or less than that which would be required for a clay liner.

⁵ Clay liner required unless waste management units are underlain by a substantial thickness of natural geologic materials with permeability of 1×10^{-6} cm/sec or less.

⁶ Single liner shall be a clay liner and removed or replaced as described in Section 2542 of this article. Double liner systems shall have either an outer clay liner or shall be underlain by a substantial thickness of natural geologic materials with a permeability of 1×10^{-6} cm/sec or less to act as an outer liner.

Synthetic inner liner required in addition to a clay outer liner unless exempted pursuant to Subsection 2510(b) of this subchapter.

⁸ Synthetic inner liner required in addition to a clay liner unless the surface impoundment is closed according to Subsection 2582(b) (1) of this subchapter, or unless exempted pursuant to Subsection 2510(b) of this subchapter.

⁹ Synthetic inner liner required unless the pile is closed according to Subsection 2583(a) (1), or unless exempted pursuant to Subsection 2510(b) of this subchapter.

2542. Liners.

(a) Liners shall be designed and constructed to contain the fluid, including waste and leachate, as required by Article 3 of this subchapter.

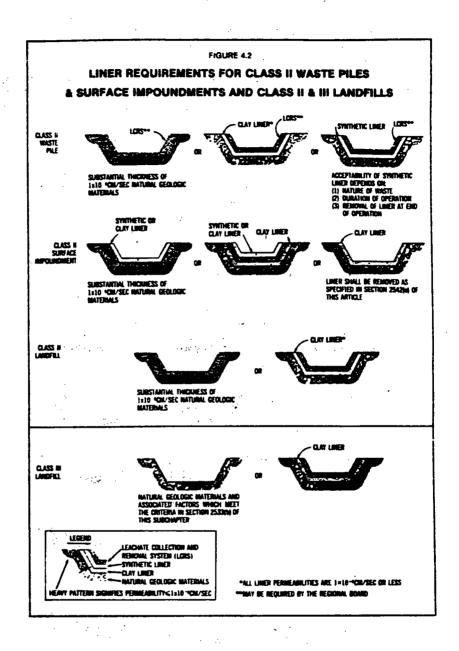
(b) Clay liners for a Class I or Class II waste management unit shall be a minimum of 2 feet thick and shall be installed at relative compaction of at least 90 percent. For a Class III landfill, a clay liner, if required, shall be a minimum of 1-foot thick and shall be installed at a relative compaction of at least 90 percent.

- (e) Synthetic liners shall have a minimum thickness of 40 mils.
- (d) Liners shall be installed to cover all natural geologic materials at a waste management unit likely to be in contact with waste or leachate.
- (e) A Class II surface impoundment may have a single clay liner with a permeability of 1 x 10-6 cm/sec or less if the liner is removed or replaced before the last 25 percent (minimum 1 foot thickness) of the liner is penetrated by fluid, including waste or leachate. The method used to determine seepage velocity shall be included with the calculations of liner penetration.

2543. Leachate Collection and Removal Systems.

- (a) Leachate collection and removal systems are required for Class I landfills, surface impoundments, and waste piles; for Class II landfills and surface impoundments; and for Class III landfills which have a liner or accept sewage or water treatment sludge. The systems shall be installed directly above underlying containment features for landfills and waste piles, and installed between the liners for surface impoundments. Leachate collection and removal systems requirements are summarized on Table 4.1 Class II landfills and waste piles which contain only dry wastes (not including nonhazardous solid waste and decomposable waste) may be allowed to operate without leachate collection and removal systems if the discharger demonstrates, based on climatic and hydrogeologic conditions, that leachate will not be formed in, or migrate from, the unit.
- (b) Where leachate collection and removal systems are used, they shall be installed immediately above the liner, or between the inner and outer liner of a double-liner system, and shall be designed, constructed, main-

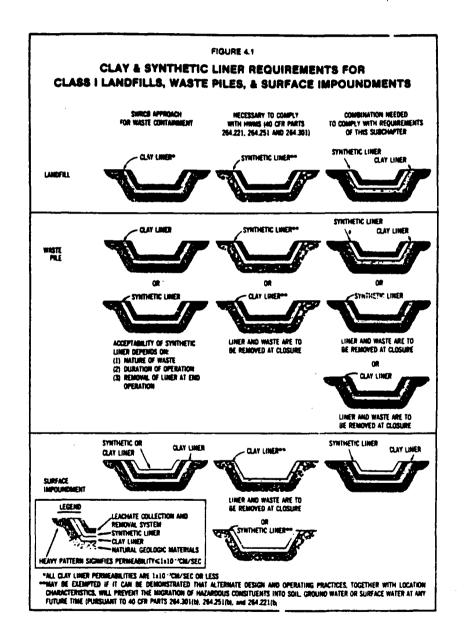
- tained, and operated to collect and remove twice the maximum anticipated daily volume of leachate from the waste management unit.
- (c) Regional boards shall specify design and operating conditions in waste discharge requirements to ensure that there is no buildup of hydraulic head on the liner. The depth of fluid in the collection sump shall be kept at the minimum needed to ensure efficient pump operation.
- (d) Leachate collection and removal systems shall be designed and operated to function without clogging through the scheduled closure of the waste management unit and during the post-closure maintenance period. The systems shall be tested at least annually to demonstrate proper operation. The results of the test shall be compared with earlier tests made under comparable conditions.
- (e) Leachate collection and removal system shall consist of a permeable subdrain layer which covers the bottom of the waste management unit and extends as far up the sides as possible, (i.e., blanket-type) except as provided in subsection (f) of this section. The collection and removal system shall be of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials, and by any equipment used at the waste management units.
- (f) If a Class III landfill is required to have an artificial liner and receives only permeable waste that allows free drainage of percolating fluid, a dendritic leachate collection and removal system which underlies less than 100 percent of the waste may be allowed. Only wastes which have a permeability which approximates that of subdrain material and will remain permeable throughout the active life and post-closure maintenance period of the landfill may be placed adjacent to the liner in this type of system. The liner shall be sloped towards the subdrain(s) to prevent ponding.
- (g) Collected leachate shall be system returned to the waste management unit(s) from which it came or discharged in another manner approved by the regional board. Collected leachate may be discharged to a different waste management unit if:
- (1) the receiving waste management unit has a leachate collection and removal system, contains wastes which are similar in classification and characteristics to those in the waste management unit(s) from which



¹⁰ Cutoff walls required where there is potential for lateral movement of fluid, including waste or leachate.

Cutoff walls required where there is potential for lateral movement of fluid, including waste or leachate, and the permeability of natural geologic materials is used for waste containment.

Exemptions may be granted if the discharger can demonstrate that the integrity of containment features, precipitation and drainage control structures, and monitoring facilities will not be jeopardized if this criterion is not met.



set back @ 40' on Pacific Driver Treatment cell need soil samples for permerlik &-schelule 8/25 (?) guelong germits obtained on 9/5/81 grade month portion of site frist (5 days) execute contaminated soil and stockpile to start September 11, 1989 400 K apent to Reto on EXR fin dollars will be 3 to 4 weeks · compare contaminants to over already exercted @ NEC of site forme Soil tast to be love on 8/25 work plan by Sept 15th Beyon susation on Sept HET Entre project - * falale mobil later Conceptual on Sept 8 Final Beorge Appl 22 * Find cost Sept 29 (Cost + 10%)

Key North

Backhee

Rul 1/20/67 Coca- Cola Torrence Facility

Problem: 2900 to 5000 cubic yould sof continuented soil beneath the site. Continuent are relatively mon-volatile maphalenes. Some concentrations are over the 1000 ppm concentration cuteria for determining hazarboros waste characteristics. Site has been regal and construction is ready to start.

Options:

1). No action - leave contamination in place and bruill specifity. Regulators do not appear to be concerned about the contamination and it loss not appear to be a threat to pourlivates (DTW @ ~ 100 feet).

abountages: O no abditional expenses or de Cays

Disabventages: any future transactions involving this site may be complicated ing the continuous issue (Lto is public information).

Since some concentrations exceed hazarlow water lives, state regulators may wenturally develope an "interest" in this site on apply more stringert regulations

in the fature.

ance the facility is built, remediation will le virtuelly impossible.

Execute and Dispose - execute contaminated soil and lispose at an auchorged landfill. It concentrations are over 1000 ppm, this must be a Class I Hampfill. Soil with concentrations below 1000 ppm may le disposed at a Class III Soulity will prior approval.

> aboutages: execution and removal with lave the site free and clear of the identified contaminants. Future property transactions or regulator intervention should not be a groblem.

Disakvantages: Execution and proper disposal is expansive. Disposed costs clone run \$ 250 - 300.00 per whie yard. Based on the estimated volume used, these costs will conservatively range from 870,000 to 1,500,000 at a Class I facility. Disposal at a class III facility will the considerably chaper; probably \$ 145,000 to 250,000 . There ipine he not include execution, transportition, documentation, or conformational sampling or imported still.

007 000235

Placing material in a Class I landfill does not alleviate (oca-bola's ownership of the maintain all oronership and lastrely and may potentially (very high potential) be required to participate in cleanup of the landfill at some point in time.

Disposal of imaterial it a class III facility (BKK Kanlifell was imantioned) may increase look liability and insibility. These landfills are typically not constructed to contain anything except household assets. According to the California Department sex Health, BKK was formerly a class I efficiely which was closed in 1984. It was re-opened as a class III spacifity in 1985 and has hed numerous compliance violations. In alkition, a residential area is reportedly losted very men the spacifity. This neighborhood was evacuated in 1986 because of mechan leaks from BKK.

This time will be delayed about 2 weeks.

This time will be necessary to execust,

remove, and dispose of soil. In abbition, conformation

sampling and chanical analysis should be
performed.

3). Greate and an-lite Treitment: excevte conteminated soils and treat on - site to reflece conteminate concentrations to exceptable levels. Once constructed, treatment cell will not effect construction or operation of plant.

advantages: end result set treatment will leave site free and class of illentified conteminants. Future property transactions or regulators involvement should not present a problem.

504 200

On-site treatment elimanates the secondary histority associated with disposel at landfills.

(3) On-site treatment is much less expension than disposal at these I landfill.

Ballpook estimate for on-site treatment is \$500,000.00 composed to 870,000 to 1.5 million for disposal.

Disablantages: Construction may be delayed up to six weeks to allow for system design and plumitting (if required).

Two weeks estimated for construction of treatment all and placement of soil.

Pete Beaver,
<u>-</u>
with Paul Bouchard at Brent Petro. (213 432-5991)
with Paul Bouchard at Brent Petro. (213 432-5991)
a frice quote was given of 52,50 a ton
for the contaminated soil Petroleun hudro.
No problems with different types of soil
No problems with different types of soil
being accepted at this facility located in
Wilmington (A. However, no heavy metals
or PCB confaminated soils will be accepted.
We are schooluled for a site Facility town
at our earliest convenience. a letter of
occeptance and a GC+A will be provided
ON 9-12-89. A copy of our analytical was
submitted to breat Petro.
a sample of the soil will be given to
Brent Petro so that they can run their own
analysis. Receiving of the motorial can begin
at the time we begin excavating.
Brent Petro. Thoules
4111 Caral Ct 52.50/100
W. Inington CA
REVIEWED WESTERN TECHNOLOGIES INC.
The Quality People

TO: P. Beares 9/4/19 a flowered Re: -> Could - Toneny 500 pls - 3000 pm 1 shot I 15# /1000 S000 yes. 200# . 3000 April = 40,500 # of TAHC. For / innoulation = 15(5000)

artitants = 4 = 1PS = 2000# at \$5.00 /th -> \$10,000 / Barterry I' Ferlys - ammonium Khorphaly 40,500 #TPHC x O. H = 300 # of ammonium Brogers \$25/100# =\$ 1825 to Est Cost - Dartena -10K Fertiles #12KE

007 000239

Coca-Cols Enterprises
Attn: Ed Todd/BW 1017A
ONE COCA COLA PLAZA N W
ATLANTA: GA 30313

Site Characterization/Torrance Coke-Torrance Raul Ramirez

DATE

WORK DESCRIPTION

Environmental Engineering Services:

Director Review, per hour Project Manager Report Review Financial Compliance Neview Telephone Expense Outside Services Freight Expense Consultation, per Bout Equipment Rental AMOUNT

6813-12 13.50 680.00 375.00

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liced Mr. H. Straches Line

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DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4
845 WEST BROADWAY, SUITE \$50
LONG BEACH, CA 90802
(219) 890-4468



July 21, 1989



Irvine, California 92718

10.18.25.

Attn: Gary Carlin

Dear Mr. Miller:

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALIFORNIA AT 19875 PACIFIC GATEWAY DRIVE

We have completed our review of your letter report, hand delivered to this office on July 11, 1989 and have the following comments.

Your property lies about 1,300 feet north of the Del Amo Hazardous Waste Site. This site consists of waste disposal ponds and sumps that were used by a former synthetic rubber manufacturing complex. The types of wastes disposed in these ponds include volatile and semi-volatile organic substances such as benzene, styrene and naphthalene. It is believed that the complex covered the entire area bordered by 190th Street to the north, Del Amo Boulevard to the south, Normandie Avenue to the west, and Vermont Avenue and Hamilton Avenue to the east. Documents in our files indicate that there were manufacturing areas, underground and above ground tanks, underground lines, and possible sumps that may be sources of soil and ground water contamination. Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances believed to have originated from the disposal ponds and sumps.

Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

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Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scanduss, Chief Site Mitigation Unit

Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

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DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4 845 WEST BROADWAY, SUITE \$50 LONG BEACH, CA 90802 (219) 890-4848



July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attn: Gary Carlin

Dear Mr. Miller:

12.18._{24.}

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALIFORNIA AT 19875 PACIFIC GATEVAY DRIVE

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.

Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scanduse, Chief Site Mitigation Unit

Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

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STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4
845 WEST BROADWAY, SUITE \$50
LONG BEACH, CA 90502
1213) 860-4444

July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

12.18.2m

Attn: Gary Carlin

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Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scandusa, Chief Site Mitigation Unit

Region 4 (Long Beach)

Toxic Substances Control Division

Enclosure



HARGIS + ASSOCIATES, INC.

2223 Avenida De La Playa, Suite 300 La Jolla, California 92037 (619) 454-0165 Telecopier (619) 454-5839 David R. Hargis, Ph.D., R.G. Michael R. Long, R.G. Terry M. Turner, R.G. Roger A. Niemeyer, R.G. Lea S. Leanhart, Ph.D., R.G. Lonae J. Raymond Peter T. Quinlan Mary F. Jones, Ph.D., R.E.A. Timothy T. Jarvis, Ph.D., R.E.A.

Led's disuss

July 18, 1989



VIA FEDERAL EXPRESS

Mr. Matt Fanoe COCA-COLA ENTERPRISES One Coca-Cola Plaza, CCE-819 Atlanta, GA 30301

Re: Request for Property Access to Install a Groundwater Test Well

Dear Mr. Fanoe:

In regards to our telephone conversation of July 14, 1989, the following is the request for access which I mentioned. Please review and forward it to the necessary personnel within your company.

Pursuant to an administrative order from the United States Environmental Protection Agency (EPA) issued to Montrose Chemical Corporation of California (Montrose), this letter is a request for access to the property shown as owned by Coca-Cola Bottling Company of Los Angeles, Torrance, California. The purpose of the requested access is to install and sample, on a regular basis, one groundwater monitor well. The well is part of a groundwater investigation conducted by Montrose and overseen by the EPA that presently includes approximately 60 existing and proposed monitor wells in the immediate area (Figure 1).

The monitoring well is proposed for the northwest portion of the Coca-Cola Bottling Company property located at 19899 Pacific Gateway Drive, in Torrance, California. The field work required under the order involves access for: 1) a small truck mounted hollow stem auger drill rig, operated by sub-contractors to Hargis + Associates, Inc.; 2) Hargis + Associates, Inc. field personnel; and 3) EPA oversight personnel. The initial field work should involve no more than one week, and is planned to commence in late August or early September of 1989. The name and address of the proposed drilling contractor is: Beylik Drilling, Inc., 591 South Walnut, La Habra, California 90631.

The site will be restored to as near its original condition as possible before the field crews leave the property. An example of the proposed surface completion for the monitor wells has been provided (Figure 2).

1

HARGIS + ASSOCIATES, INC.

Mr. Matt Fanoe July 18, 1989 Page 2

Routine future access to the monitor well to collect groundwater samples will also be necessary. Coca-Cola Bottling Company will be given ample notice before any sampling activities take place.

Hargis + Associates, Inc. will telephone you later this week to confirm receipt of this letter and to further discuss this matter. If you have any questions in the interim, please contact Roger Niemeyer, Matthew Wiedlin, or myself. Hargis + Associates, Inc. looks forward to cooperating with you on with matter.

Sincerely,

HARGIS + ASSOCIATES, INC.

Rush N. Boynton Hydrogeologist

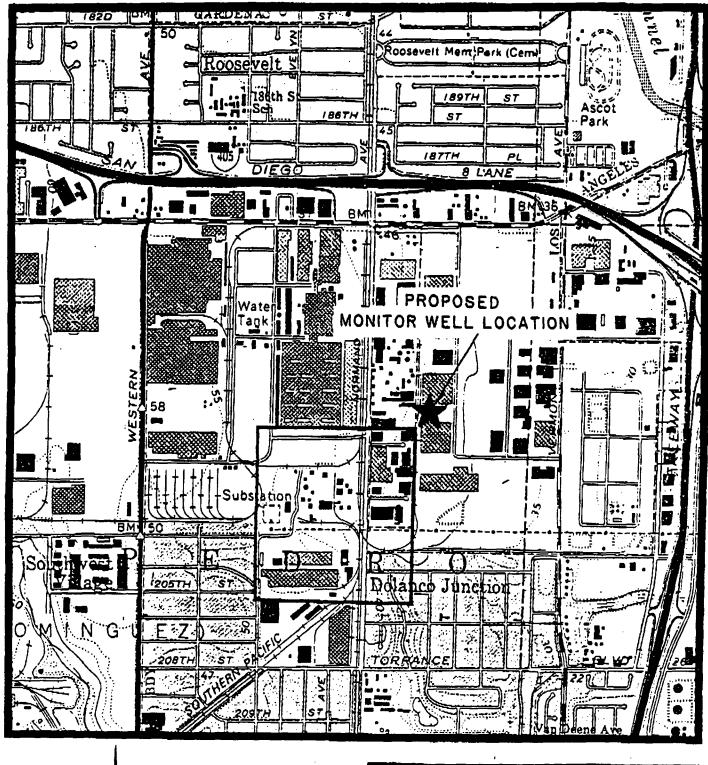
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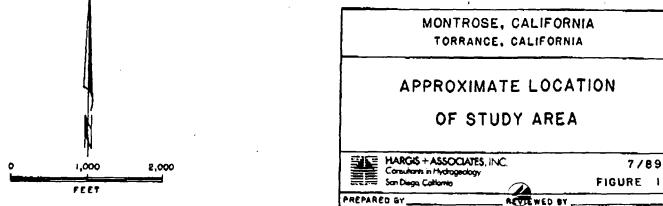
Enclosures

cc: Karl Lytz, Latham & Watkins
Dan Greeno, Montrose Chemical Co.
Johanna Miller, EPA Region IX

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7/89





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FIGURE 2. CROSS SECTIONAL VIEW OF MONITOR WELL COMPLETION

DEPARTMENT OF HEALTH SERVICES
TOXIC SUBSTANCES CONTROL PROGRAM
REGION 4
245 WEST BROADWAY, SUITE 350
LONG BEACH, CA 90802
(213) 590-4868



January 29, 1990

Mr. Peter Beaver Senior Project Manager Coca Cola Enterprises - West/U.S. Technical Environmental Consulting, Inc. 1414 West Broadway Road, Suite 150 Tempe, AZ 85282

Dear Mr. Beaver:

ACTIVITY FEE PROGRAM

By your letter of December 11, 1989 to the Department of Health Services (Department) you have identified your client, Coca Cola Enterprises - West, as the party primarily responsible for taking action to characterize and remedy any public health and/or environmental threats posed by any uncontrolled releases of hazardous substances at 19875 Pacific Gateway Drive in Carson, CA. Pursuant to legislation (Chapter 269, Statutes of 1989) which was recently signed into law by the Governor, you are obligated to pay activity fees to partially cover the Department's cost of evaluating and overseeing your actions to characterize and satisfactorily remediate this site. This includes the evaluation of the site assessment report you submitted and providing you with recommendations for future remedial actions.

Chapter 269 sets out specific fees for the various phases of activity associated with characterizing and abating hazardous substance release sites based on the relative size of each site as estimated by the Department. Enclosed are the various definitions of site and activity sizes as set forth in Chapter 269 as well as the fee schedule. For purposes of establishing a fee for the first phase of activity being conducted at Coca Cola Distribution Facility, the Department has made a preliminary determination that the site is a medium sized site as defined by Chapter 269. You should be aware that the law does allow the Department to make adjustments to initial site size determinations so that fee levels may be raised or lowered for subsequent phases of activity based on additional data. However, the law does not allow for retroactive application of such adjustments.

The Department has also made a determination that a Preliminary Endangerment Assessment (PEA) must be conducted at this site to determine whether it will be necessary to take some type of initial removal or remedial action to stabilize site conditions to reduce any acute public

Mr. Peter Beaver page 2
January 29, 1990

health and environmental threats posed by currents site conditions. The fee for conducting a PEA is \$ 7,500 regardless of site size.

Chapter 269 requires the State Board of Equalization (Board) to collect the fees established by the Department under the Act. You may expect to receive a demand from the State Board in the near future based on the fee levels described herein. As each phase of activity associated with a fee is completed at the site, a demand for the fee that is associated with the next phase of activity will be sent to you by the State Board. In cases where fees are not paid promptly, the State Board is empowered to seize personal as well as business assets and take other enforcement actions to ensure payment.

Please contact Manny Alonzo at (213)590-4904 if you have any questions regarding this new program or required actions at the site.

Sincerely

John J. Kearns

Regional Administrator

Enclosures

cc: Raul Ramirez
Coca Cola Enterprises West
1334 South Central Avenue
Los Angeles, CA 90021

SB 475: Site Size Definitions

Site Sizes

Small site. RI/FS' cost less than \$250K and FRA+ less than \$1M

Medium site - RI/FS cost between \$250K and \$1.25M and FRA between \$1M and \$5M

Large site - RI/FS cost between \$1.25M and \$5M and FRA between \$5M and \$20M

Extra-Large site - RI/FS cost greater than \$5M and FRA greater than \$20M

Removal Action (RA)

Small RA - less than \$500K

Medium RA - \$500K to \$1M

Large RA - S1M to S5M

Extra-Large RA - greater than \$5M

Operation and Maintenance (O&M)

Small O&M - Annual cost less than \$500K

Medium O&M - Annual cost \$500K to \$1M

Large O&M - Annual cost \$1M to \$5M

Extra-Large O&M - Annual cost greater than \$5M

^{*} RI/FS = Remedial Investigation/Feasibility Study

^{*} FRA = Final Remedial Action

SB 475 Fee Schedule

Site Size Estimation Fee

\$5,000 (applicable to all sites)

Endangerment Assessment Fee

\$7,500 (applicable to all sites)

Removal Action Oversight Fee

Variable, dependent on site size:

\$14,500 (small sites) \$37,000 (medium sites) \$73,500 (large sites) \$147,000 (extra-large sites)

Remedial Investigation/Feasibility Study (RI/FS) Oversight Fee

Variable, dependent on site size:

\$21,500 (small sites) \$43,000 (medium sites) \$85,500 (large sites) \$200,000 (extra-large sites)

Remedial Action Plan (RAP) Oversight Fee

Variable, dependent on site size:

\$4,500 (small sites) \$9,000 (medium sites) \$18,000 (large sites) \$38,000 (extra-large sites)

Remedial Design Oversight Fee

Variable, dependent on site size:

\$7,500 (small sites) \$14,500 (medium sites) \$29,000 (large sites) \$80,000 (extra-large sites)

Final Remedial Action (FRA)

Oversight Fee

Variable, dependent on site size:

\$10,000 (small sites) \$20,000 (medium sites) \$40,000 (large sites) \$106,000 (extra-large sites)

Operation and Maintenance (O&M)

Oversight Fee

Variable, dependent on site size:

\$6,000 per year (small sites)

\$12,000 per year (medium sites) 007 000256 \$14,000 per year (large sites)

\$34,000 per year (extra-large sites)

Prorating/Adjusting SB 475 Fees

I. Prorating Fees

SB 475 fees take effect July 1, 1989. Fees for phases of site investigation and cleanups in progress as of that date are to be prorated as described below. Fees will not be assessed for phases completed prior to July 1, 1989; instead, there will be 100% cost recovery per H&SC 25360.

To prorate the fee:

- 1. identify phase of activity in progress on July 1, 1989, and site or activity size;
- 2. identify defined length of activity;
- 3. divide activity fee by number of months defined for activity;
- 4. the result is the monthly fee quotient;
- 5. multiply number of months the site has been in the phase of activity (as of July 1, 1989) by monthly fee quotient; and
- 6. subtract that amount from total fee.
- 7. The result is the prorated fee.

For fee proration purposes, SB 475 stipulates the following timeline for phases of site activity:

Federation of Site Size	2 manths (all sites)
Estimation of Site Size	. э монив (ан висэ)
Preliminary Endangerment Assessment	. 3 months (all sites)
Removal Actions	. 4 months (small sites)
	6 months (medium sites)
	12 months (large sites)
	24 months (extra-large sites)
Remedial Investigation/	. 9 months (small action)
Feasibility Study (RI/FS)	17 months (medium action)
	33 months (large action)
	60 months (extra-large action)
Remedial Action Plan (RAP)	. 3 months (small sites)
	3 months (medium sites)
	6 months (large sites)
	9 months (extra-large sites)
Remedial Design (RD)	. 2 months (small sites)
	3 months (medium sites)
	6 months (large sites)
	12 months (extra-large sites)
Final Remedial Actions	. 4 months (small sites)
	8 months (medium sites)
	20 months (large sites)
	40 months (extra-large sites)
Operation and Maintenance (O&M)	12 months per year (all sites)

For fee assessment purposes, RI/FS activity will not be considered to be commenced prior to the date that DHS approved an RI/FS workplan. For determining the start date for other phases of activity that may be ongoing, the following will apply:

- the RAP phase begins on the date the final RIFS report was approved by DHS.
- the RD phase begins on the date the final RAP was approved by DHS.
- the final remedial action phase begins on the date the final remedial design was approved by DHS.
- the O&M phase begins on the date that the site cleanup certification form was signed by DHS.

II. Adjusting Fees

DHS is authorized to reclassify site size at any time. However, for fee assessment purposes, the new size classification would only apply to fees assessed for subsequent phases of site investigation and cleanup activity and not to completed or current phases.

III. Additional Charges to RPs

Although SB 475 has established specific fees to be charged to RPs for site investigation and cleanup oversight, the law continues to require DHS to recover all identifiable costs beyond those covered by the fees. Essentially, the new fees are analogous to "downpayments" against future cost recovery actions, since actual oversight costs will be in excess of the fees established by SB 475.

TURRONER

STATE OF CALIFORNIA OFFICE MEMO STD. 100 (REV. 10/87) 87 44331 DATE 2-08-90 mrs Peter Blaves U.S. TERH ROOM/STA. NO. SUBJECT:

The Preliminary Endangerment Assessment (PEA) was established as part of the Department of Health Services'(DHS) Toxic Substances Control Program(TSCP) hazardous waste site cleanup process effective July 1, 1989. This assessment is defined in Section 25319.5, Chapter 6.8, Division 20 of the California Health and Safety Code as:

"25319.5. Preliminary endangerment assessment means an activity which is performed to determine whether current or past waste management practices have resulted in the release or threatened release of hazardous substances which pose a threat to public health or the environment."

Based on this definition, the PFA has been designed specifically to be the initial TSCP process for evaluating potential hazardous substance release sites. The PFA has three primary objectives. First, the assessment must determine if a release of hazardous substances has or has not occurred at the site. The second objective is to determine if an immediate stabilization action is warranted at the site to mitigate direct threats to public health and the environment posed by a release of hazardous substances or by situations that may result in a release of hazardous substances. In cases when a release of hazardous substances has occurred at a site, a third objective is to determine if the site poses a threat to Public health and the environment and requires remediation.

Private parties are now allowed to participate with the TSCP in conducting initial site evaluations as the result of the passage of Senate Bill 475. This bill added Section 25347.6 to the Health and Safety Code to allow the TSCP to oversee "removal or remedial action" work carried out by private parties on a fee-for-service basis. Activities such as the PEA are, by statutory definition (Health and Safety Code, Section 25322), considered to be within the category of remedial actions. The fee prescribed for the oversight of the PEA in Section 25347.6(d) is \$7,500.00.

Pursuant to Section 25347.6, the PEA process has been separated into two distinct phases. The first phase, collection of data and preparation of a PEA report, is the responsibility of the private party requesting that a site be evaluated. The second phase, consisting of evaluation of the data/PEA report and issuance of a determination on the need for cleanup actions at the site, is the responsibility of the TSCP.

The overall roles and responsibilities of the TSCP and private parties in the PEA process are shown on Figure 1. The TSCP staff are responsible for:
1) initiating the billing of the private party by the State Board of Equalization for the \$7,500.00 fee; 2) meeting with the private party to explain the PEA process and PEA report requirements; 3) conducting an agency records check and site inspection to familiarize themselves with the site being evaluated; 4) providing guidance to the private party relative to preparation of the PEA report; 5) overseeing any sampling done at the site by the private party; 6) reviewing the PEA report for completeness and

issuance of a determination of completeness; and 7) evaluating the data in the report and making a determination regarding the need for site cleanup actions at the site.

Several options are available to the TSCP staff in making a recommendation based on review of a PEA report. A no "No Further Action" recommendation is made in cases when no release of hazardous substances has occurred and this situation can be clearly documented and in cases when a release has occurred but the site does not present a threat to public health and the environment. In cases where a release has been documented and a threat exists, the recommendation would consist of moving the site forward into characterization and formal remediation. All sites considered to pose a medium to high threat will be required to carry out characterization and remediation activities under direct TSCP oversight. For sites considered to pose a low threat, the private parties will be provided with a list of approved site characterization and remediation procedures and they will be allowed to carry out this work without direct TSCP oversight. Two other recommendations are also possible when contamination exists. A stabilization action may be recommended for sites that pose an immediate threat to public health and the environment. Stabilization may consist of fencing the site, capping the contaminated area, removing degraded containers of hazardous substances, and other similar actions. A final option for a recommendation is to refer cleanup oversight of a contaminated site to another agency. This situation would occur in cases such as when the contamination is associated with a leaking underground storage tank. This sites would be referred because the Regional Water Quality Control Boards (RWQCB) and County Health Departments have been given the lead responsibility in this area Pursuant to Chapter 6.7. Division 20 of the California Health and Safety Code. The site would also be referred if other agencies have already initiated oversight of cleanup operations.

The primary responsibility of a private party in the PFA process is preparation of the PFA report. Specific responsibilities of the private party include: 1) submitting a written request to the TSCP to complete a PFA on a specific site; 2) payment of the \$7,500.00 to the to the State Board of Equalization when billed for the fee; 3) meeting with the TSCP staff to receive the PFA Report Manual and to discuss completion of the assessment; 4) preparation of the PFA report in accordance with the specifications provided by the TSCP; and 5) modification of the report if necessary in accordance with a "Notice of Deficiency" issued by the TSCP staff and resubmittal of the report.

Several points regarding preparation of PEA reports need to be emphasized and kept in mind throughout the report preparation process. The primary focus of the reports must be on presenting the site specific data required by the PEA manual as clearly and concisely as possible. Using lists, bulleted outlines, tables and figures are preferable over long discussions. Failure to clearly provide the data required in the initial report will result in issuance of a "Notice of Deficiency" by the TSCP staff subsequent

to review of the report. If the report is not modified and resubmitted within 30 days or if the report is resubmitted in a form that is not responsive to the Notice of Deficiency it will be rejected and the PEA process for the site will be terminated. Reinitiation of the assessment process will require payment of a second \$7,500.00 fee.

Since sites will be ranked in accordance with the <u>Uncontrolled Hazardous Waste Site Ranking System; A Users Manual</u> (reference: 40 Code of Federal Regulations, part 300 Appendix A), factors required under the Hazard Ranking System (HRS) are particularly important. The PEA manual provides suggested references for the various information requirements. Use of these references is not mandatory but in the event of conflicting information, these references will be considered authoritative unless a private party can clearly prove otherwise.

It may be appropriate to abbreviate the PEA report in some cases. This situation would occur when Section A, Site History and Description; Section B, Apparent problem; and Section C, Sampling Activities, clearly document that no release of hazardous substances has occurred and no threat of a release exists. In these cases, Section D - Factors Related to Known or Potential Site Contamination, Section E - Analysis of Pathways for Hazard Potential, and Section F Community Assessment may be deleted. If the report is abbreviated, Section G - Conclusions should clearly state the basis for not including Sections D, E and F private parties are encouraged to work closely with the TSCP staff assigned to oversee the data collection effort in preparing the report and when making a decision on not including sections.

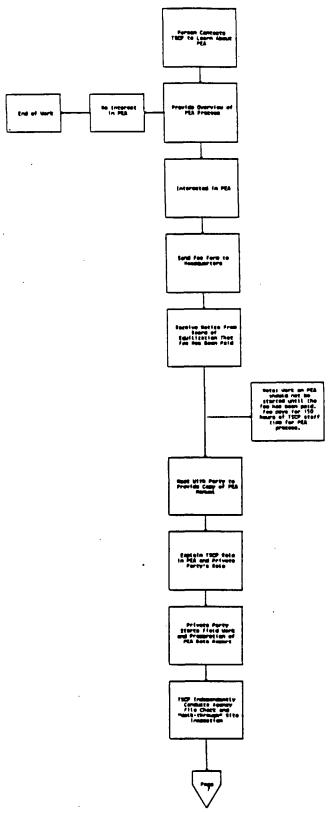
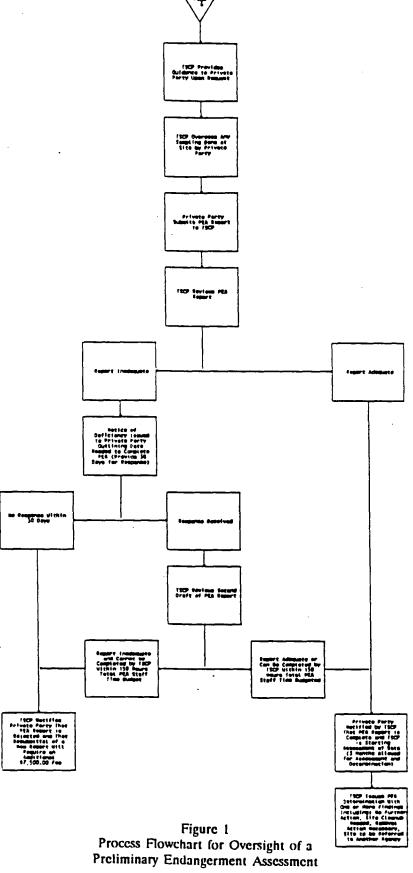


Figure 1
Process Flowchart for Oversight of a
Preliminary Endangerment Assessment





PRELIMINARY ENDANGERMENT ASSESSMENT CHECKLIST

	Section	ı	Location In Report	Adequate/ Inadequate
. Site H	istory an	d Description		
-	Site Lo	ocation:		
	1)	Facility Name		
	2)	Street Address		
	3)	Mailing Address		
	4)	Phone Number		
	5)	Other Names		
	6)	EPA ID Number		
	7)	ASPIS Number		
	8)	Assessor's Parcel Number and Map	•	
	9)	Township, Section, Range, Meridian	· ·	
	10)	Map of Site Location		
-	Past ar	nd Current Site Activities:		
	1)	Business Type/Years of Operation		
-	2)	Facility Ownership/Operators	 	
	3)	Property Owners		
	4)	Process Description:	·	
		a) Type/quantities of products		
		b) List of materials/chemicals used		

	Section	<u>1</u>		Location In Report	Adequate/ Inadequate
		c)	Descriptive overview of process		
		d)	Map of All Site Features		
•	Hazaro	ious Was	ste Management		
	1)	Waste	Stream Identification and Waste		
		Quan	ntities		
	2)	On Sit	e Storage, Treatment, and Disposal:		
		a)	Description of storage units		
		b)	Description of treatment units		
		c)	Description of disposal practices		
		d)	Description of containment of storage,		
			treatment, disposal units		
		e)	Description of recovery/recycling		
			practices	•	
		r)	Off-site wastes recovered; origin, type,		· · · · · · · · · · · · · · · · · · ·
			quantity	,	
	:3)	Regula	tory Status Identification		
	4)	Agency	Inspection Results Summary		
Appar	ent Prob	elem			
-	Summa	ary of Na	nture of Contamination at Site		,

В.

		Section		In Report	Inadequate
	-	Summa	ry of Contaminants of Concern		
	-	Justifica	ntion for "No Further Action" Recommendation		
C.	Samplii	ng Activi	ities		
	-	Past Sa	mpling Efforts		
	-	PEA S	ampling Efforts		
	-	Analysi	s of Sampling Results		
D.	Factors	Related	to Known or Potential Site Contamination		
	-	Hazard	ous Substances/Waste at the Site		
		Charac	teristics of Hazardous Substances/Wastes:		
		1)	Physical State/Color		
		2)	Molecular Weight		
		3)	Specific Gravity or Density		
		4)	Solubility		-
		5)	Freezing/Boiling/Melting Points		
		6)	Vapor Pressure		•
		7)	Henry's Constant		

Section			Location In Report	Adequate/ Inadequate
8)	Flashpo	pint		
9)	Upper	and Lower Explosive Limits		
10)	NFPA	Ignitibility Level Rating		
1 1)	NFPA	Reactivity Level Rating		
12)	Incomp	patible Compounds		
13)	pН			
14)	Toxicit	y/Persistence Rating		
Exposu	ire Rout	es and Toxicity:		
1)	Exposu	ire Data:		
	a)	Description of Exposure Routes	<u>.</u>	
	b)	Description of Dispersion Mechanisms		
	c)	Timing of Releases		
2)	Toxicit	y Data:		
	a)	Description of Relative Toxicity		
	b)	General Toxicological Properties		
	c)	Standards (RfDs, etc.)		
		•		
Soil/D	irect Co	ntact Pathways		
1)	Descri	ption of Soil Contamination		
	and	Recommendation		
2)	Topog	raphy Description		
3)	Land 1	Use and Zoning Description		

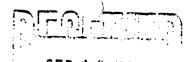
Section		Location In Report	Adequate/ Inadequate
4)	Description of Environmental Impacts		
5)	Hydrologic Soil Group		
6)	Description of Soil Permeability		
7)	Description of Slope of Site		
8)	Description of Soil Stability/Seismic Conditions		
9)	Description of Site Accessibility		
10)	Description of Containment Measures		
11)	Locations of Sensitive Facilities (Schools, etc.)		
12)	Locations of Sensitive Habitats		
Factors	Related to Water Pathways:		
1)	Description of Water Contamination		
	and Remediation		
2)	Net Seasonal Perception		
3)	Description of Hydrology		
4)	For Interconnected Aquifers:		
	a) Distance to Nearest Well		
	b) Population Using Water .		
•	c) Irrigated Areas		
5)	Aquifers Not Interconnected:	·	
	a) Distance to Nearest Wells		
	b) Population Using Water From Each		
	Aquifer		
	c) Irrigated Areas for Each Aquifer		

Section		Location In Report	Adèquate/ <u>Inadequate</u>
6)	Ground Water Uses		
7)	One Year/24-Hour Rainfall	-	
8)	Distance to Nearest Downhill Surface Water	-	
9)	Runoss Flow Distance and Water Intake		
	Locations		
10)	Runoff Control Measures		
11)	Floodplain Identification		
12)	Description of Migration Routes of		
	Substance		
13)	Description of Location and Uses of Surface		
	Water Intakes		
14)	Population Using/Acres Irrigated From Each		
	Water Intake		•
15)	Distance to Wetland/Critical Habitat		
16)	Sensitive Habitats That May be Affected		
	by Runoff		
Factors	Related to Air Pathways:		
1)	Description of Air Contamination and		
	Remediation		
2)	Wind Direction/Velocity		
3)	Description of Local Climate		
4)	Description of Timing of Release		
5)	Description of Dispersion Routes		

	Section	1	In Report	Inadequate
	6)	Populations of Residents/Workers		
	7)	Location/Distance to Sensitive Facilities		
		(Schools, etc.)		
	8)	Location/Distance to Development Areas		
		(Commercial/Industrial, etc.)		•
	9)	Description of (Type, Location and Distance)		
		Sensitive Areas (Wetlands, etc.)		
E.	Analysis of Pa	thways for Hazard Potential Determination		
	- Knowi	n Hazard:		
	1)	Contaminants Identified		
	2)	Target Populations/Environments Described		
	3)	Effects on Target Populations/Environments		
		Described		
	- Poteni	ial Hazard:		
	1)	Contaminants Identified and Fate Described		
	2)	Potential Populations/Environments Identified		
	3)	Potential Effects on Human/Environmental		
		Targets		
	4)	Uncertainty Factors		
	- No Po	tential Hazard:		

Call But Breagans

STATE OF CALIFORNIA





WILLIAM M. BENNETT
First District, Kanthield

CONWAY H. COLLIS Second District, Los Angeles

ERNEST J. DRONENBURG, JR. Third District, San Diego

> PAUL CARPENTER Fourth District, Los Angeles

> > GRAY DAVIS

troller, Socramento

Executive Director

September 4, 1990

U.S. Technical Environmental Consulting Mr. Peter Beaver 1414 W. Broadway Rd, Suite 150 Tempe, AZ 85282

> Coca Cola Ent. - West HC HQ 36-034839 Notice of Determination: April 26, 1990

Dear Mr. Beaver:

STATE BOARD OF EQUALIZATION

(916) 739-4957

(P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

1020 N STREET, SACRAMENTO, CAUFORNIA

We have received notification from the Department of Health Services (Department) regarding your client's petition for redetermination of the notice indicated above. The following information was provided by the Department.

The Department noted that the assessment report indicated possible contamination existing at the site located at 19875 Pacific Gateway Drive. Due to the possibility of contamination and the fact that the self-certification process is not currently recognized by the Department, a preliminary endangerment assessment must be completed. As a result, the fee assessed on April 26, 1990 is due.

If you are still in disagreement with the above, please submit additional reasons or reaffirm your request for a hearing within 30 days from the date of this letter. If a reply is not received within the specified time, we will presume that you are no longer interested in pursuing this matter and we will recommend redetermination without any adjustment.

Sincerely,

David McKillip Supervising Auditor Environmental Fee Unit

CR:cr

/cocacola

cc: Coca Cola Ent. - West
Mr. Raul Ramirez
1334 South Central Avenue
Los Angeles, CA 90021

		Section	Location In Report	Adequate/ Inadequate
		1) Factors Showing No Hazard Exists	<u></u>	
F.	Comm	unity Assessment		
	•	Summary of Community Concern		
	•	Concerns/Issues Identified by Locals		
	•	Community Views on Actions at Site		
	-	Recommended Information Repositories		
	•	Names/Addresses of Interested Parties		
G.	Conclu	sions		
	-	Release/Potential Release Identified		
	•	Threat to Public Health/Environment Identified		
	-	Stabilization Action Need Identified		



U.S. Technical Environmental Consulting, Inc.

May 21, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, HARGIS AND ASSOCIATES - MONTROSE CHEMICAL RESULTS OF MONITORING WELL INSTALLATION. JOB NO. 89007.

Dear Raul:

We have been notified by a representative of Hargis and Associates, at the request of their client Montrose Chemical Corporation, of the results of the installation of the two monitor wells installed on and adjacent to the Pacific Gateway Drive site. In summary, a substantial amount of a volatile hydrocarbon material was found on the surface of the water table, at a depth of approximately 60 feet, in the wells. This is significant because no similar material occurred in any of the other wells installed in conjunction with the Montrose project. Those other wells are all located in an area to the south of the Carson site.

The presence of this material on the water table directly under the Pacific Gateway Drive site does not imply that a release occurred from the site. It is possible that the material is migrating from a source to the north, which is the upgradient direction.

The results of the work performed for the Montrose project are reported directly to the U.S. Environmental Protection Agency, since the Montrose site is under an EPA consent order. Also in the area within one mile are five other sites where subsurface investigations are being performed, the results of which are also being reported to EPA. In addition, the California DOHS and Regional Water Quality Control Board are also involved.

The result of all of this is that there will probably be EPA and California involvement in the Pacific Gateway Drive site and others to the north. The agencies could request that additional investigations be performed or even that remediation efforts be undertaken.

Coca-Cola Enterprises - West Pacific Gateway Drive

Our recommendation is to do nothing with regard to any further environmental work that might be required, until contacted by the respective agencies. However, we do recommend that Coca-Cola not enter into any final agreement with any previous owners of the site at this time.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver

Manager Remedial Services

Steven M. Myers, R.G.

President

/weh

May 23, 1990

State Board of Equalization Department of Business Taxes 1891 Alhambra Boulevard Sacramento, California 95816

RE: PETITION FOR REDETERMINATION, ACCOUNT NO. HC HQ 36-034839, 19875 PACIFIC GATEWAY DRIVE, CARSON, CALIFORNIA. JOB NO. 89007.

Dear Sirs:

This letter serves as a Petition for an informal meeting with a hearing officer for a Redetermination in reference to the above stated account. This Petition is made on the basis that the activity on the site was wrongly determined by DOHS to be a Preliminary Endangerment Assessment. In reality, the limited activity performed was a Self-Certification action undertaken by the owners of the site, which is able to be performed without direct DOHS involvement.

The information submitted to DOHS was for notification of work to be performed on a site potentially involving hazardous waste. The results of the work performed showed that the materials in question were not hazardous with respect to Title 22 of the CAC, therefore DOHS involvement on the level of a Preliminary Endangerment Assessment is not justified.

Also for the record, please amend the name and address of the owner of the site to be:

Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021 Attn: Raul Ramirez Telephone: 213-746-5555 If you have any questions or comments, please contact the undersigned at (602) 829-6311. Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver

Manager Remedial Services

Steven M. Myers, R.G.

President

/weh

cc: Raul Ramirez, CCE - West Ed Todd, CCE - Atlanta

Steve McConnell, CCE - West

STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001 (916) 1739-2582 AMOUNT PENALTY CONTRACTOR PROCESSION OF THE PARTY OF THE PA Manager Conta MEAN FRANCISCO ADDITIONAL PRINCIPAL OF THE PRINCIPAL OF THE PARTITION OF THE ACTIVITY FEE INDICATED LAGYE AS THE PASSES OF SULLY AND SAFETY AS THE PASSES OF SAFETY AS THE PASSES OF SAFETY AS THE SAFETY AS 25347.6 OF THE HEALTH DEPARTMENT OF THE PERFORMED BY THE BEPARTMENT OF THE THE PERFORMENT OF THE PERFO SITE : 19875 PACIFIC GATEVAY DRIVE TIMFORMATION CONCERNING DETERMINATIONS -A PERSON AGAINST HHOM A BETERNINATION IS MADE OR ANY PERSON AIRE INTERESTED MAY PETITION FOR REBETERMINATION WITH THE BOARD OF ASPETITION: MUST BELIN! WAITING AND STATE THE SPECIFIC WHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPAREBLED SUBNIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUESTS

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STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES

D. BOX 942879 SACRAMENTO CALIFORNIA 94279-000

EFFECTIVE DATE OF PAYMENT—

ETER: BEAVER
OCA: COLA! ENT. - WEST/US: TECHNICAL:
414 W. BROADWAY: RD. .. STE. .. 150.
ENPE AZ 85282

ACCOUNT NUMBER

PAGE 2:

EAMOUNT

IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE FIVEN
THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST.
THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED.
PROMPT: PAYMENT OF DUDISPOTED PORTIONS OF THE LIABILITY SHOWS OF THE LIABILITY SH

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4
845 WEST BROADWAY, SUITE 350
LONG BEACH, CA 90502
(213) 890-4448



July 21, 1989



Irvine, California 92718

Attn: Gary Carlin

Dear Mr. Miller:

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALLFORNIA AT 19875 PACIFIC GATEWAY DRIVE

We have completed our review of your letter report, hand delivered to this office on July 11, 1989 and have the following comments.

Your property lies about 1,300 feet north of the Del Amo Hazardous Waste Site. This site consists of waste disposal ponds and sumps that were used by a former synthetic rubber manufacturing complex. The types of wastes disposed in these ponds include volatile and semi-volatile organic substances such as benzene, styrene and naphthalene. It is believed that the complex covered the entire area bordered by 190th Street to the north, Del Amo Boulevard to the south, Normandie Avenue to the west, and Vermont Avenue and Hamilton Avenue to the east. Documents in our files indicate that there were manufacturing areas, underground and above ground tanks, underground lines, and possible sumps that may be sources of soil and ground water contamination. Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances believed to have originated from the disposal ponds and sumps.

Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

9.

Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scanduss, Chief Site Mitigation Unit Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

STATE OF CALIFORNIA-HEALTH AND WELFARE AGENCY

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4 845 WEST BROADWAY, SUITE \$50 LONG BEACH, CA 90802 (2) 3) 890-4868

July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

18. W.

Attn: Gary Carlin

Dear Mr. Miller:

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANCHELES, CALIFORNIA AT 19875 PACIFIC GATEWAY DRIVE

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Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scanduse, Chief Bite Mitigation Unit

Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

STATE OF CALFORNIA-HEALTH AND WELFARE AGENCY

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL DIVISION REGION 4
845 WEST BROADWAY, SUITE \$50
LONG BEACH, CA 90802
(2) 8) 890-4868



July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

10.0

Attn: Gary Carlin

Dear Mr. Miller:

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Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

Mr. Michael J. Miller. P.E. Page 2 July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Sincerely,

John Scandusa, Chief Bite Mitigation Unit Region 4 (Long Beach)

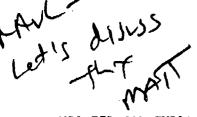
Toxic Substances Control Division

Enclosure



HARGIS + ASSOCIATES, INC.

2223 Avenida De la Playa, Suite 300 la Jolla, California 92037 (619) 454-0165 Telecopier (619) 454-5839 David R. Hargis, Ph.D., R.G. Michael R. Long, R.G. Terry M. Turner, R.G. Roger A. Niemeyer, R.G. Lea S. Leonhart, Ph.D., R.G. Lance J. Raymond Peter T. Quinlan Mary F. Jones, Ph.D., R.E.A. Timothy T. Jarvis, Ph.D., R.E.A.



July 18, 1989



VIA FEDERAL EXPRESS

Mr. Matt Fanoe COCA-COLA ENTERPRISES One Coca-Cola Plaza, CCE-819 Atlanta, GA 30301

Re: Request for Property Access to Install a Groundwater Test Well

Dear Mr. Fance:

In regards to our telephone conversation of July 14, 1989, the following is the request for access which I mentioned. Please review and forward it to the necessary personnel within your company.

Pursuant to an administrative order from the United States Environmental Protection Agency (EPA) issued to Montrose Chemical Corporation of California (Montrose), this letter is a request for access to the property shown as owned by Coca-Cola Bottling Company of Los Angeles, Torrance, California. The purpose of the requested access is to install and sample, on a regular basis, one groundwater monitor well. The well is part of a groundwater investigation conducted by Montrose and overseen by the EPA that presently includes approximately 60 existing and proposed monitor wells in the immediate area (Figure 1).

The monitoring well is proposed for the northwest portion of the Coca-Cola Bottling Company property located at 19899 Pacific Gateway Drive, in Torrance, California. The field work required under the order involves access for: 1) a small truck mounted hollow stem auger drill rig, operated by sub-contractors to Hargis + Associates, Inc.; 2) Hargis + Associates, Inc. field personnel; and 3) EPA oversight personnel. The initial field work should involve no more than one week, and is planned to commence in late August or early September of 1989. The name and address of the proposed drilling contractor is: Beylik Drilling, Inc., 591 South Walnut, La Habra, California 90631.

The site will be restored to as near its original condition as possible before the field crews leave the property. An example of the proposed surface completion for the monitor wells has been provided (Figure 2).

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HARGIS + ASSOCIATES, INC.

Mr. Matt Fanoe July 18, 1989 Page 2

Routine future access to the monitor well to collect groundwater samples will also be necessary. Coca-Cola Bottling Company will be given ample notice before any sampling activities take place.

Hargis + Associates, Inc. will telephone you later this week to confirm receipt of this letter and to further discuss this matter. If you have any questions in the interim, please contact Roger Niemeyer, Matthew Wiedlin, or myself. Hargis + Associates, Inc. looks forward to cooperating with you on with matter.

Sincerely,

HARGIS + ASSOCIATES, INC.

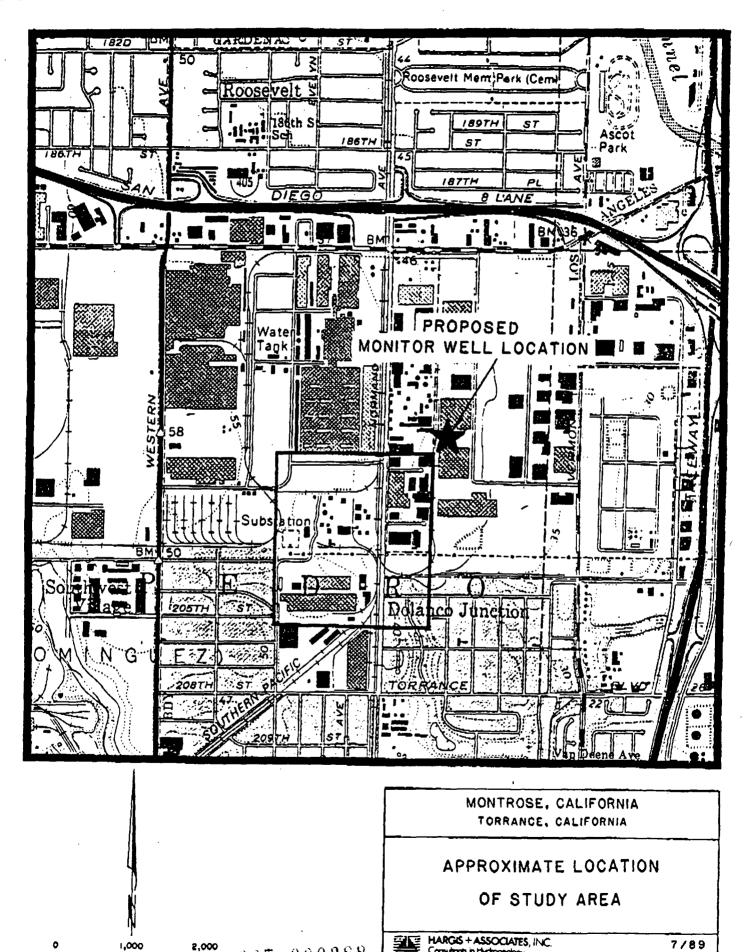
Rush N. Boynton Hydrogeologist

RNB/elm

Enclosures

cc: Karl Lytz, Latham & Watkins Dan Greeno, Montrose Chemical Co. Johanna Miller, EPA Region IX

fanoe.ltr



007 000288

FEET

San Diego, California

PREPARED BY

FIGURE I

REVIEWED BY

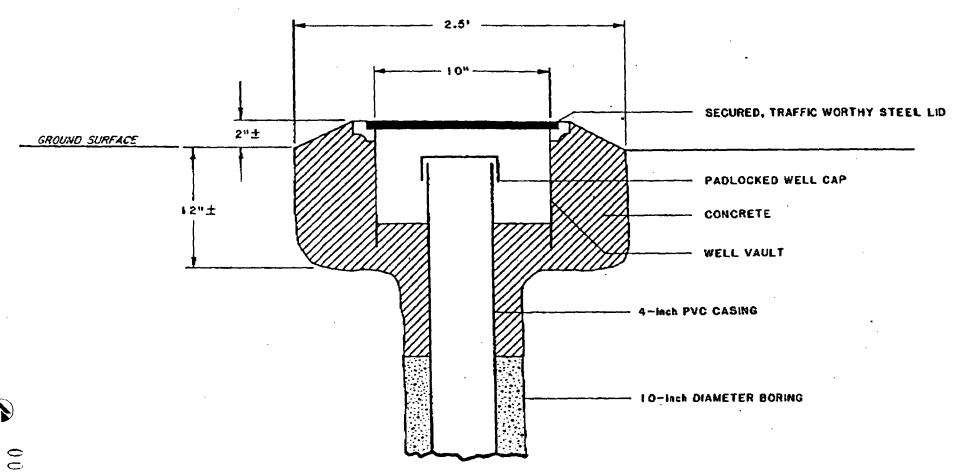


FIGURE 2. CROSS SECTIONAL VIEW OF MONITOR WELL COMPLETION



U.S. Technical Environmental Consulting, Inc.

May 23, 1990

State Board of Equalization Department of Business Taxes 1891 Alhambra Boulevard Sacramento, California 95816

RE: PETITION FOR REDETERMINATION, ACCOUNT NO. HC HQ 36-034839, 19875 PACIFIC GATEWAY DRIVE, CARSON, CALIFORNIA. JOB NO. 89007.

Dear Sirs:

This letter serves as a Petition for an informal meeting with a hearing officer for a Redetermination in reference to the above stated account. This Petition is made on the basis that the activity on the site was wrongly determined by DOHS to be a Preliminary Endangerment Assessment. In reality, the limited activity performed was a Self-Certification action undertaken by the owners of the site, which is able to be performed without direct DOHS involvement.

The information submitted to DOHS was for notification of work to be performed on a site potentially involving hazardous waste. The results of the work performed showed that the materials in question were not hazardous with respect to Title 22 of the CAC, therefore DOHS involvement on the level of a Preliminary Endangerment Assessment is not justified.

Also for the record, please amend the name and address of the owner of the site to be:

Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021 Attn: Raul Ramirez Telephone: 213-746-5555 If you have any questions or comments, please contact the undersigned at (602) 829-6311. Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Bc. Peter A. Beaver

Manager Remedial Services

Steven M. Myers, R.G.

President

/weh

Raul Ramirez, CCE - West Ed Todd, CCE - Atlanta cc:

Steve McConnell, CCE - West

STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES

P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

ALIFORNIA 94279-0001

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SITE E 1987S PACIFIC GATEVAY DRIVE

DOHS TRANSMITTAL NUMBER 90-4-12-SN

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STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES

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FFECTIVE DATE OF PAYMENT

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PAGE 2

IS DESIRED. A 19 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILLIAM SIVEN
THE FILING OF A PETITION WILL NOT PREVENT THE ACCRUAL OF INTEREST.
THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED.
WHILL 30 DAYS AFTER THE BATE OF A NOTICE OF REDETERMINATION. THE PROPERTY OF SUDISPOYED PORTIONS OF THE LIABILITY SHOWEN A MADE THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN

007 000293

STATE OF CALIFORNIA

OFFICE MEMO	DATE
STD. 100 (REV. 10/87) 87_46331	2-08.90
TO: Jus. Peter Beaves	
U.S. TERA	ROOM/STA. NO.
FROM: 20 Co. 1	PHONE NUMBER ATSS
FROM: Manny Clons	(213)590-4904 RODM/STA. NO.
SUBJECT: PEA inio.	
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This was is of help to	you.
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The Preliminary Endangerment Assessment (PEA) was established as part of the Department of Health Services'(DHS) Toxic Substances Control Program(TSCP) hazardous waste site cleanup process effective July 1, 1989. This assessment is defined in Section 25319.5, Chapter 6.8, Division 20 of the California Health and Safety Code as:

"25319.5. Preliminary endangerment assessment means an activity which is performed to determine whether current or past waste management practices have resulted in the release or threatened release of hazardous substances which pose a threat to public health or the environment."

Based on this definition, the PEA has been designed specifically to be the initial TSCP process for evaluating potential hazardous substance release sites. The PEA has three primary objectives. First, the assessment must determine if a release of hazardous substances has or has not occurred at the site. The second objective is to determine if an immediate stabilization action is warranted at the site to mitigate direct threats to public health and the environment posed by a release of hazardous substances or by situations that may result in a release of hazardous substances. In cases when a release of hazardous substances has occurred at a site, a third objective is to determine if the site poses a threat to Public health and the environment and requires remediation.

Private parties are now allowed to participate with the TSCP in conducting initial site evaluations as the result of the passage of Senate Bill 475. This bill added Section 25347.6 to the Health and Safety Code to allow the TSCP to oversee "removal or remedial action" work carried out by private parties on a fee-for-service basis. Activities such as the PFA are, by statutory definition (Health and Safety Code, Section 25322), considered to be within the category of remedial actions. The fee prescribed for the oversight of the PFA in Section 25347.6(d) is \$7,500.00.

Pursuant to Section 25347.6, the PEA process has been separated into two distinct phases. The first phase, collection of data and preparation of a PEA report, is the responsibility of the private party requesting that a site be evaluated. The second phase, consisting of evaluation of the data/PEA report and issuance of a determination on the need for cleanup actions at the site, is the responsibility of the TSCP.

The overall roles and responsibilities of the TSCP and private parties in the PEA process are shown on Figure 1. The TSCP staff are responsible for:
1) initiating the billing of the private party by the State Board of Equalization for the \$7,500.00 fee; 2) meeting with the private party to explain the PEA process and PEA report requirements; 3) conducting an agency records check and site inspection to familiarize themselves with the site being evaluated; 4) providing guidance to the private party relative to preparation of the PEA report; 5) overseeing any sampling done at the site by the private party; 6) reviewing the PEA report for completeness and

issuance of a determination of completeness; and 7) evaluating the data in the report and making a determination regarding the need for site cleanup actions at the site.

Several options are available to the TSCP staff in making a recommendation based on review of a PEA report. A no "No Further Action" recommendation is made in cases when no release of hazardous substances has occurred and this situation can be clearly documented and in cases when a release has occurred but the site does not present a threat to public health and the environment. In cases where a release has been documented and a threat exists, the recommendation would consist of moving the site forward into characterization and formal remediation. All sites considered to pose a medium to high threat will be required to carry out characterization and remediation activities under direct TSCP oversight. For sites considered to pose a low threat, the private parties will be provided with a list of approved site characterization and remediation procedures and they will be allowed to carry out this work without direct TSCP oversight. Two other recommendations are also possible when contamination exists. A stabilization action may be recommended for sites that pose an immediate threat to public health and the environment. Stabilization may consist of fencing the site, capping the contaminated area, removing degraded containers of hazardous substances, and other similar actions. A final option for a recommendation is to refer cleanup oversight of a contaminated site to another agency. This situation would occur in cases such as when the contamination is associated with a leaking underground storage tank. sites would be referred because the Regional Water Quality Control Boards (RWQCB) and County Health Departments have been given the lead responsibility in this area Pursuant to Chapter 6.7. Division 20 of the California Health and Safety Code. The site would also be referred if other agencies have already initiated oversight of cleanup operations.

The primary responsibility of a private party in the PEA process is preparation of the PEA report. Specific responsibilities of the private party include: 1) submitting a written request to the TSCP to complete a PEA on a specific site; 2) payment of the \$7,500.00 to the to the State Board of Equalization when billed for the fee; 3) meeting with the TSCP staff to receive the PEA Report Manual and to discuss completion of the assessment; 4) preparation of the PEA report in accordance with the specifications provided by the TSCP; and 5) modification of the report if necessary in accordance with a "Notice of Deficiency" issued by the TSCP staff and resubmittal of the report.

Several points regarding preparation of PEA reports need to be emphasized and kept in mind throughout the report preparation process. The primary focus of the reports must be on presenting the site specific data required by the PEA manual as clearly and concisely as possible. Using lists, bulleted outlines, tables and figures are preferable over long discussions. Failure to clearly provide the data required in the initial report will result in issuance of a "Notice of Deficiency" by the TSCP staff subsequent

to review of the report. If the report is not modified and resubmitted within 30 days or if the report is resubmitted in a form that is not responsive to the Notice of Deficiency it will be rejected and the PEA process for the site will be terminated. Reinitiation of the assessment process will require payment of a second \$7,500.00 fee.

Since sites will be ranked in accordance with the <u>Uncontrolled Hazardous Waste Site Ranking System</u>; A <u>Users Manual</u> (reference: 40 Code of Federal Regulations, part 300 Appendix A), factors required under the Hazard Ranking System (HRS) are particularly important. The PEA manual provides suggested references for the various information requirements. Use of these references is not mandatory but in the event of conflicting information, these references will be considered authoritative unless a private party can clearly prove otherwise.

It may be appropriate to abbreviate the PEA report in some cases. This situation would occur when Section A, Site History and Description; Section B, Apparent problem; and Section C, Sampling Activities, clearly document that no release of hazardous substances has occurred and no threat of a release exists. In these cases, Section D - Factors Related to Known or Potential Site Contamination, Section E - Analysis of Pathways for Hazard Potential, and Section F Community Assessment may be deleted. If the report is abbreviated, Sections G - Conclusions should clearly state the basis for not including Sections D, E and F private parties are encouraged to work closely with the TSCP staff assigned to oversee the data collection effort in preparing the report and when making a decision on not including sections.

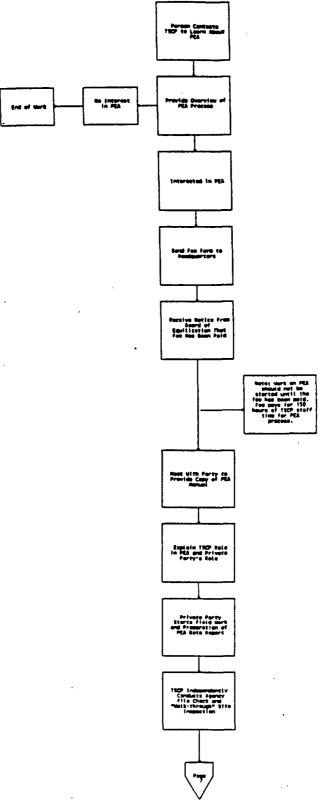
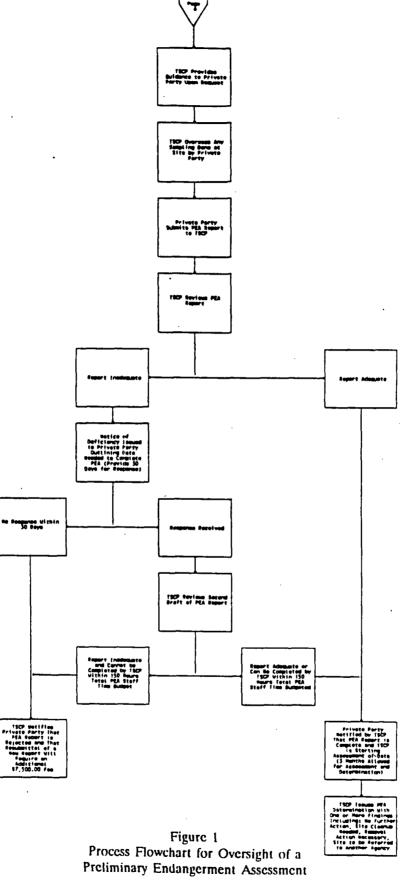


Figure 1
Process Flowchart for Oversight of a
Preliminary Endangerment Assessment





PRELIMINARY ENDANGERMENT ASSESSMENT CHECKLIST

	Section		Location In Report	Adequate/ Inadequate	
			•	•	
Site Hi	story and	1 Description			
-	Site Lo	cation:			
	1)	Facility Name			
	2)	Street Address			
	3)	Mailing Address			
	4)	Phone Number			
•	5)	Other Names			
	6)	EPA ID Number	·		
	7)	ASPIS Number			
	8)	Assessor's Parcel Number and Map			
	9)	Township, Section, Range, Meridian	-		
	10)	Map of Site Location			
-	Past an	d Current Site Activities:			
	1)	Business Type/Years of Operation			
	2)	Facility Ownership/Operators			
	3)	Property Owners			
	4)	Process Description:			
		a) Type/quantities of products			
		b) List of materials/chemicals used			

	Section		Location In Report	Adequate/ Inadequate		
			c)	Descriptive overview of process		
			d)	Map of All Site Features		·
	•	Hazard	lous Was	ste Management		
		1)	Waste	Stream Identification and Waste	· · · · · · · · · · · · · · · · · · ·	
			Quan	tities		
		2)	On Site	e Storage, Treatment, and Disposal:		
			a)	Description of storage units		
			b)	Description of treatment units		
			c)	Description of disposal practices		
			d)	Description of containment of storage,		
				treatment, disposal units		
			e)	Description of recovery/recycling		
				practices		
			Ŋ	Off-site wastes recovered; origin, type,		
				quantity		
		3)	Regula	tory Status Identification		
		4)	Agency	Inspection Results Summary		
В.	Apparo	ent Prob	lem	•		
	-	Summa	ary of Na	iture of Contamination at Site		

		Section		In Report	Inadequate
	•	Summa	ry of Contaminants of Concern		<u></u>
	-	Justifica	ation for "No Further Action" Recommendation		
C.	Sampli	ng Activ	ities ·		·
	-	Past Sa	mpling Efforts		
		PEA S	ampling Efforts		
	-	Analysi	is of Sampling Results		
D.	Factor	s Related	1 to Known or Potential Site Contamination		
	•	Hazard	ous Substances/Waste at the Site		
	-	Charac	teristics of Hazardous Substances/Wastes:		
		1)	Physical State/Color		
		2)	Molecular Weight		·
		3)	Specific Gravity or Density		
		4)	Solubility		
		5)	Freezing/Boiling/Melting Points		
		6)	Vapor Pressure		
		7)	Henry's Constant		

Section	1		Location In Report	Adequate/ Inadequate
8)	Flashp	oint		
9)	Upper	and Lower Explosive Limits		
10)	NFPA	Ignitibility Level Rating		
11)	NFPA	Reactivity Level Rating		
12)	Incom	patible Compounds		
13)	рН			
14)	Toxici	ty/Persistence Rating		
		•		
Expos	ure Rou	tes and Toxicity:		
1)	Expos	ure Data:		
	a)	Description of Exposure Routes		
	b)	Description of Dispersion Mechanisms		
	c)	Timing of Releases		•
2)	Toxici	ty Data:		
	a)	Description of Relative Toxicity		
	b)	General Toxicological Properties		
	c)	Standards (RfDs, etc.)		
Soil/D	irect Co	ontact Pathways		
1)	Descr	iption of Soil Contamination		
	and	Recommendation		
2)	Торо	graphy Description		
3)	Land	Use and Zoning Description		

Section		Location In Report	Adequate/ Inadequate
4)	Description of Environmental Impacts		
5)	Hydrologic Soil Group		
6)	Description of Soil Permeability		
7)	Description of Slope of Site		
8)	Description of Soil Stability/Seismic Conditions	 	
9)	Description of Site Accessibility		
10)	Description of Containment Measures		
11)	Locations of Sensitive Facilities (Schools, etc.)		
12)	Locations of Sensitive Habitats		
Factors	Related to Water Pathways:		
1)	Description of Water Contamination		
	and Remediation		
2)	Net Seasonal Perception		
3)	Description of Hydrology		
4)	For Interconnected Aquifers:		
	a) Distance to Nearest Well		
	b) Population Using Water		
	c) Irrigated Areas		
5)	Aquifers Not Interconnected:		
	a) Distance to Nearest Wells		
	b) Population Using Water From Each		
	Aquiler		. •
	c) Irrigated Areas for Each Aquifer		

Section		Location In Report	Adequate/ <u>Inadequate</u>
6)	Ground Water Uses		
7)	One Year/24-Hour Rainfall		
8)	Distance to Nearest Downhill Surface Water		
9)	Runoss Flow Distance and Water Intake	-	
	Locations		
10)	Runosf Control Measures	` 	
11)	Floodplain Identification		
12)	Description of Migration Routes of		
	Substance		
13)	Description of Location and Uses of Surface		
	Water Intakes		
14)	Population Using/Acres Irrigated From Each		
	Water Intake		
15)	Distance to Wetland/Critical Habitat		,
16)	Sensitive Habitats That May be Affected		
	by Runoff		
	`		
Factors	Related to Air Pathways:		
1)	Description of Air Contamination and		
	Remediation		
2)	Wind Direction/Velocity		
3)	Description of Local Climate		
4)	Description of Timing of Release		
5)	Description of Dispersion Routes		

	Section		In Report	Inadequate
	6)	Populations of Residents/Workers		
	7)	Location/Distance to Sensitive Facilities	-	
		(Schools, etc.)		
	8)	Location/Distance to Development Areas		
		(Commercial/Industrial, etc.)		
	9)	Description of (Type, Location and Distance)		
		Sensitive Areas (Wetlands, etc.)		
nalys	is of Pat	hways for Hazard Potential Determination		
	Known	Hazard:		
	1)	Contaminants Identified		
	2)	Target Populations/Environments Described		
	3)	Effects on Target Populations/Environments		
		Described		
	Potenti	al Hazard:	÷	
	1)	Contaminants Identified and Fate Described		
	2)	Potential Populations/Environments Identified		
	3)	Potential Effects on Human/Environmental	***	
		Targets		
	4)	Uncertainty Factors		
				·

No Potential Hazard:

		Section	Location In Report	Adequate/ Inadequate
		1) Factors Showing No Hazard Exists		
F.	Comm	unity Assessment		
	•	Summary of Community Concern		
	-	Concerns/Issues Identified by Locals		
	-	Community Views on Actions at Site		
	-	Recommended Information Repositories		
	•	Names/Addresses of Interested Parties		<u></u>
G.	Conclu	isions		
	•	Release/Potential Release Identified		
	-	Threat to Public Health/Environment Identified		
		Stabilization Agains Need Manufilled		



U.S. Technical Environmental Consulting, Inc.

May 11, 1990

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, CALIFORNIA DEPARTMENT OF HEALTH SERVICES, ASSESSMENT OF REVIEW FEE. JOB NO. 89007.

Dear Mr. Ramirez:

This letter is to inform you that we are in receipt of an invoice to Coca-Cola for a fee of \$7,500.00 payable to the California State Board of Equalization, a copy of which is attached. This invoice was issued due to the fact that the California Department of Health Services (DOHS) has determined that the review of the data that we submitted to them would be the equivalent to what they call a Preliminary Endangerment Assessment.

The DOHS is now required, by legislation, to charge fees to review reports and to prepare decisions. This policy came into effect during the time work was being performed on the subject site. Basically, DOHS delayed their responses to any communications until this fee mechanism was in place.

An appeal process is available, which we intend to pursue on your behalf given your approval. The basis for the appeal would be that our report was intended to notify DOHS of a specific limited activity to be carried out on the site that might involve hazardous waste. During the course of the work it was demonstrated that the material in question was non-hazardous and was self-certified as such, which is an allowable option under DOHS regulations, therefore no review or determination is required from DOHS for the work performed or the information submitted.

For the record, we will also request that the correct name and address for the owner of the site be entered in the files.

Coca-Cola Enterprises - West Job No. 89007

Please contact us with any questions or comments at your earliest convenience so that we may submit the appeal. Also, notify us if you wish to involve your legal staff so that we might provide them with the necessary information.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING

Peter A. Beaver Manager Remediation Services

Steven M. Myers, R.G. President

Attachment

Copies to: Ed Todd

May 11, 1990

Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

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Coca-Cola Enterprises - West Job No. 89007

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Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING

Peter A. Beaver Manager Remediation Services

Steven M. Myers, R.G. President

Attachment

Copies to: Ed Todd

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STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES

P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

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	MO. DAY YEAR	
	MU. DATE	

EXCISE TAX (ACTIVITY FEE)

(916) 739-2582

PETER BEAVER COCA COLA ENT.-WEST/US TECHNICAL 1414 W. BROADWAY RD., STE. 150. AZ 85282

DATE:

ACCOUNT NUMBER HC HQ 36-53483

**HOTICE OF DETERMINATION*

YOU ARE HEREBY NOTIFIED OF AM AMOUNT DUE FROM YOU PURSUANT TO THE HAZARDOUS SUBSTANCES TAX LAW

APR 3 0 1990

*****AMOUNT PENALTY INTEREST

AS ASSESSED 03/08/90-03/08/90

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THE ACTIVITY FEE INDICATED ABOVE HAS BEEN ASSESSED PURSUANT TO SECTION 25347.6 OF THE HEALTH AND SAFETY CODE AND IS BASED UPON ACTIVITIES PERFORMED BY: THE DEPARTMENT OF HEALTH SERVICES.

THE ABOVE FEE IS BASED ON A PRELIMINARY ENDANGERMENT ASSESSMENT.

DOHS TRANSMITTAL NUMBER 90-4-12-SM Dall & m. All process or a more of the first process of the first fill and the fill of the fill of the fill of

PERSON AGAINST WHOM: A PRETERMINATION (IS - MADE OR ANY PERSONS INTERESTED MAY PETITION FOR REBETERMINATION WITH THE BOARD OF EQUALIZATION WITHIN 30-DAYS FRON THE DATE SHOWN AT THE TOP OF THIS NOTICE.

A PETITION: MUST BE IN WRITING AND STATE THE SPECIFIC GROUNDS: UPON UHICH IT IS FOUNDED. ANYONE FILING A PETITION SHOULD BE PREPARED TO SUBNIT DOCUMENTARY EVIDENCE TO SUPPORT THE SPECIFIC GROUNDS UPON REQUESTS

IF A HEARING IS DESIRED. IT SHOULD BE REQUESTED IN THE PETITION. THE REQUEST SHOULD SPECIFY WHETHER AN INFORMAL MEETING WITH A HEARING OFFICER AT THE NEAREST DISTRICT OFFICE OR A HEARING BEFORE THE BOARD IN SACRAMENTO

		81-	12	10	REV.	5	(12-86)
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STATE BOARD OF EQUALIZATION
DEPARTMENT OF BUSINESS TAXES
P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

RE	PA	٨	
EFFECTIVE	DATE OF PAY	MENT	
MO.	DAY	YEAR	٠,

IN REPLY REFER TO:

PETER BEAVER
COCA COLA ENT.-WEST/US TECHNICAL
1414 W. BROADWAY RD., STE.-150
TEMPE AZ 85282

DATE:		ACCO	UNT NUMBER
	APRIL 26,1990	HE HQ	36-0348
		ATIONAS	

PAGE Z

 19 July 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AM	OUNT	
· . FEE	INTEREST	PENALTY	TOTAL

IS DESIRED. A 10 DAY NOTICE OF THE TIME AND PLACE OF HEARING WILL BE GIVEN.

THE FILING OF A PETITION WILL MOT PREVENT THE ACCRUAL OF INTEREST.

THE APPLICATION OF ADDITIONAL PENALTY REFERRED TO ABOVE WOULD BE DEFERRED UNTIL 30 DAYS AFTER THE BATE OF A NOTICE OF REDETERMINATION.

PROMPT PAYMENT OF UNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE.

THIS WILL PREVENT ACCRUAL OF ADDITIONAL INTEREST THEREON AND WILL NOT IN ANY WAY AFFECT THE PROTESTED PORTIONS.

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STATE BOARD OF EQUALIZATION **DEPARTMENT OF BUSINESS TAXES**

RE.	PM+	
EFFECT	IVE DATE OF PAYMEN	VT.

- P.O. BOX 942879 SACRAMENTO, CALIFORNIA 94279-0001

DATE:

EXCISE TAX (ACTIVITY FEE)

Day Desir

PETER BEAVER

COCA COLA ENT.-WEST/US TECHNICAL 1414 W. BROADMAY RD., STE. 150.

AZ 85282

APRIL 26,1990 HC HQ 36-53483

YOU ARE HEREBY NOTIFIED OF AN AMOUNT DUE FROM YOU PURSUANT TO THE

HAZARDOUS SUBSTANCES TAX LAY

AMOUNT INTEREST PENALTY AS ASSESSED 03/08/90-03/08/90 7500-00

L-0000.

TOTAL

ADDITIONAL INTEREST OF \$87.50 ACCRUES ON THE ANOUNT OF FEE DUE AT THE MODIFIED ADJUSTED RATE OF 111666 OF ONE PERCENTS (1911667) EACH MONTH, OR FRACTION THEREOF, IF NOT PAID ON OR BEFORE 05/31/90. A TO A TO THE TOTAL OF THE TOTA

750-00 IF NOT PAID BEFORE 05/26/98. The same of the sa

THE ACTIVITY FEE INDICATED ABOVE HAS BEEN ASSESSED PURSUANT TO SECTION 25347.6 OF THE HEALTH AND SAFETY CODE AND IS BASED UPON ACTIVITIES

THE ABOVE FEE IS BASED ON A PRELIMINARY ENDANGERMENT ASSESSMENT.

A PERSON AGAINST WHOM A POETERMINATION (IS MADE OR ANY INTERESTED MAY PETITION FOR REDETERMINATION WITH THE BOARD OF WITHIN 30-DAYS FROM THE DATE SHOWN AT THE TOP OF THIS NOTICE.

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STATE BOARD OF EQUALIZATION DEPARTMENT OF BUSINESS TAXES

SACRAMENTO, CALIFORNIA 94279-0001

RE	PI	W	
EFFECTIVE	DATE OF PAY	MENT	
MO.	DAY	YEAR	٠,

IN REPLY REFER TO:

COCA COLA ENT.-WEST/US TECHNICAL 1414 N. BROADWAY RD., STE. 150. AZ 85282 "

ACCOUNT NUMBER APRIL 26.1990

AMOUNT

TER THE BATE OF A NOTICE OF REDETERMINATION. PROMPT: PAYMENT OF TUNDISPUTED PORTIONS OF THE LIABILITY SHOULD BE MADE. CCE-West
Bottlers of Coca-Cola

Bottlers of Coca-Cola 1334 South Central Avenue Los Angeles, CA 90021 (213) 746-5555 (213) 744-8904 (Fax) 1 Mily

FACSIMILE COVER SHEET

DATE: 4-3-90 TIME: 5.05 PM
PLEASE DELIVER THE FOLLOWING 3 PAGE(S) TO: include coverfage
NAME: Pete Beauer DEPT .: US Dece.
FACSIMILE NUMBER: (602) 829-63/5
FROM: Raul Ramirez
COMMENTS:
attached invoice has been sent to this office for
payment. Please verify all has been completed so
Attached invoice has been sent to this office for fayment. Please verify all has been completed so payment can be sent for processing.
IF YOU DO NOT RECEIVE "ALL" PAGES, PLEASE CALL:
(213) 746-5555 EXT.: <u>4335</u>



Brent Petroleum Corporation

Telephone: (213) 432-5991 Telex: 188030-8PC OIL FAX: (213) 437-7815 100 Oceangate, Suite 1024 Long Beach, CA 90802

INVOICE

MARCH 30, 1990

TO: COCA-COLA ENTERPRISES WEST

1334 S. CENTRAL AVENUE

LOS ANGELES, CA 90021

INVOICE# 066-S

P.O.# 48987

ATTENTION: MR. RAUL RAMIREZ

TRANSACTION: RECEIPT FOR NON-HAZARDOUS CONTAMINATED SOIL FROM

COCA-COLA ENTERPRISES WEST AT 1334 S. CENTRAL AVENUE, LOS ANGELES, CA 90021 DELIVERED TO BRENT

PETROLEUM'S SOLID FACILITY.

QUANTITY:

1,628.38 TONS

CHARGE:

\$

75.00 PER TON

TOTAL DUE:

\$122,128.50

TERMS:

TOTAL DUE 15 DAYS UPON RECEIPT OF INVOICE AND

SUPPORTING DOCUMENTS.

PLEASE REMIT PAYMENT BY CHECK TO THE ADDRESS ABOVE. THANK YOU.



Brent Petroleum Corporation

Telephone: (213) 432-5991 Telex: 188030-8PC OIL FAX: (213) 437-7815 100 Oceangate, Suite 1024 Long Beach, CA 90802

CERTIFICATE OF REUSE

R.C.R.A.	COMPLETED NO
NON-HAZARDOUS	COMPLETED YES
HAZARDOUS	COMPLETED NO
T.M. # ISSUED	COMPLETED 066-S
WASTE PROFILE FORM	COMPLETED YES
GENERAL WASTE QUESTIONAIRE	COMPLETED YES

B.P.C. CHARACTERIZATION:

THIS IS TO CERTIFY THAT 1,628.38 TONS OF NON-HAZARDOUS CONTAMINATED SOIL WAS DELIVERED TO BRENT PETROLEUM'S FACILITY ON MARCH 28TH AND 29TH, OF 1990. TRANSPORTED BY- HAWK WING INCORPORATED PER- U.S. TECHNICAL INCORPORATED 1414 W. BROADWAY RD., STE. 150 TEMPE, AZ 85282 JOB LOCATION- COCA-COLA ENTERPRISE WEST-1334 S. CENTRAL AVENUE-LOS ANGELES, CA ANALYSIS ON FILE.

BRENT PEROLEUM CORPORATION, E.P.A. I.D.# CAD981458466, CERTIFIES THAT THE ABOVE MATERIAL WAS ACCEPTED INTO BRENT'S FACILITY IN COMPLIANCE WITH TITLE 22 OF THE CALIFORNIA HEALTH & SAFETY CODE AND BENATE BILL 4636. THE MATERIAL HAS BECOME THE SOLE PROPERTY OF BRENT PETROLEUM CORPORATION AND IS IN THE PROCESS OF BEING RECYCLED IN ACCORDANCE WITH STATE AND PEDERAL LAWS.

DATE: MARCH 30, 1990____

MARGARET A. PIMENTEL, SALES COORDINATOR



U.S. Technical Environmental Consulting, Inc.

March 2, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: CARSON PROJECT, FEBRUARY BILLING.

Dear Raul:

U.S. Technical Environmental Consulting, Inc. (USTEC) is in receipt of your facsimile dated March 1, 1990 requesting costs incurred for the month of February at the Carson, California project.

Costs for the month total \$2,229.15. Backup materials will be sent via Federal Express with delivery on March 5, 1990. If you have any questions, please call myself or Beth Miller (Accounting Manager) at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Steven M. Myers, R.G.

President

/weh

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Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Steven M. Myers, R.G. President

/weh

January 17, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: CCE FACILITY, CARSON, CALIFORNIA. JOB NO. 89007.

Dear Raul:

After our telephone conversation on January 14, 1990, concerning the Carson, California site, I want to make sure that I presented correctly the existing situation, options, costs, and benefits versus drawbacks.

As you are aware, approximately 1,800 cubic yards of soil contaminated with total petroleum hydrocarbon (TPHC) concentrations over 1,000 ppm and with detectable polynuclear aromatic compound (PNAs) concentrations were identified beneath the site. Under the direction of U.S. Technical Environmental Consulting, Inc. (USTEC), this material was excavated and stored on site pending selection of a remedial technology.

USTEC's initial remedial recommendation was for the construction of a lined "treatment cell" in which the contaminated soil would be placed and treated biologically. Cost estimates for this technology were placed in the \$500,000.00 range. This technology represented virtually no future or additional liability to Coca-Cola Enterprises (CCE).

However, through testing completed in the preliminary treatment cell feasibility study, concentrations of PNAs which were deemed unsuitable for biological degradation were discovered in the material.

Of the remedial options considered at this point (incineration, incorporation into asphalt, and simple burial), only asphalt incorporation and simple burial were deemed to be reasonably cost effective by CCE. USTEC's recommendation at that time was to have the material made into asphalt. Estimated costs for this technology were in the \$250,000.00 range. However, it was determined through contact with the various state regulators and the asphalt production company, that the facility could not receive material contaminated with potentially hazardous substances. A letter from Brent Petroleum to DHS dated September 1989 is attached for your review. State regulations are unclear as to the classification of PNAs at low concentrations therefore, specific approval could not be granted.

As a final recommendation set forth in order to allow construction of the building, USTEC recommended simple burial as the remedial technology. This recommendation and reasoning was sent to CCE in USTEC's Subsurface Investigation Report dated December 11, 1989.

Coca-Cola Enterprises - West Job No. 89007

In accordance with your request, USTEC pursued an expedited review of the report from both the Department of Health Services (DOHS) and the California Regional Water Quality Control Board. Verbal comments were received last week from DOHS. A summary of the comments is presented below.

- o DOHS will not render any opinion on the site at this time. They are requiring a review fee of \$7,500.00 to make a hazardous waste determination and an additional \$7,500.00 to review USTEC's report. The review process will take about 90 days. Final written approval could take up to six months depending on their interpretation and understanding of the site conditions.
- o It is USTEC's opinion that the DOHS <u>will</u> grant permission to bury the contaminated soil on-site. However, prior to approval, DOHS <u>may</u> want additional on-site exploration (three groundwater monitoring wells sampled at 5-foot intervals) additional soil chemistry, and possibly additional historical site information. The cost of providing this data could easily approach \$50,000.00 to \$75,000.00
- Although DOHS won't render an opinion at this point, they will allow USTEC and CCE to "self-certify" the material as non-hazardous if four samples were analyzed for fifteen priority metals, PCBs, pesticides, fish bio-toxicity tests and the results are acceptable. This is a significant concession from the regulators. The "self certification" will allow the material to be converted into asphalt. The asphalt plant (Brent Petroleum) has agreed to accept the results of the "self-certification" process. The cost for additional testing, reporting, transportation, and conversion to asphalt is estimated to around \$175,000.00.

Please note that despite repeated phone calls, Water Quality has yet to respond. The concurrence of this agency is <u>required</u> if formal approval of the burial option is to be obtained.

Based on the recent decisions (or lack of) from the state agencies, USTEC has outlined two disposal/remediation options. These options are presented below.



OPTION NUMBER 1: ON-SITE BURIAL

Associated Costs	<u>Advantage</u>	<u>Disadvantage</u>
Additional Chemistry at \$6,000	Cost savings of about \$50,000 over asphalt conversion	Maintain ownership of contaminated material
Additional Exploration at \$75,000		90 days to 6 months before approval granted
Agency Reviews at \$15,000		Additional exploration may be required
Excavation, placement, compaction at \$25,000		Requires Water Quality Board approval
Estimated Total = \$126,000		

OPTION NUMBER 2: CONVERT TO ASPHALT

Associated Costs	Advantage	<u>Disadvantage</u>
Additional chemistry at \$6,000	CCE no longer owns the material	Cost is approx. \$50,000 more than burial
Transport/mixing into asphalt at \$170,000 (63.00/ton)	Material can be removed from the site in next 5 to 10 days	
	No Water Quality Board approval required	

Estimated Total = \$176,000

Regardless of the method selected, additional chemistry is being requested by DHS. Attached is a Letter of Authorization allowing USTEC to proceed with the sampling and analyses. Please sign and return one copy to USTEC.



Coca-Cola Enterprises - West Job No. 89007

Based on the available data and the DOHS concession to allow "self-certification" of the material, U.S. Technical Environmental Consulting, Inc. recommends that the material be converted to asphalt rather than buried.

If you have any questions, please call us at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver

Senior Project Manager

Steven M. Myers, R.G.

President

/weh

Attachments: Letter of Authorization (2)

Letter, Brent Petroleum to DHS, Sept. 7, 1989

LETTER OF AUTHORIZATION

U.S. Technical Environmental Consulting, Inc. (USTEC) is hereby authorized to collect additional soil samples from the Coca-Cola facility currently under construction in Carson, California.

Four samples are to be submitted to a state certified laboratory and analyzed for E.P. Toxicity Metals, PCBs, Pesticides, and Fish Bio-Assay tests. USTEC estimates analytical costs of about \$1,250.00 per sample. Additional costs of about \$1,000.00 are expected to cover USTEC's sampling time, travel time, data analysis, and report preparation.

Samples are to be collected during the week of January 15-19, 1990. Analytical testing will be on a regular turnaround schedule unless instructed differently by Coca-Cola.

If this scope of work meets with your approval, please sign the signature block and return one copy to USTEC. Please retain one copy for your files.

Accepted by:	
Title:	
Date:	

Brent Petroleum Corporation

Telephone (213) 432-5991 Telex: 188030-BPC Oil Fax: (213) 437-7815 100 Oceangate, Suite 1024 Long Beach, CA 90802

September 7, 1989

Bob McCormick
Alternative Technology Section
Toxic Substances Control Division

Dear Mr. McCormick,

Brent Petroleum Corporation, currently an I.S.D. facility (CAD #98145446) located in Wilmington, California has begun accepting certain non-hazardous hydrocarbon contaminated soils. These soils are being used as a replacement component in the manufacture of several grades of commercial asphalt. Brent has retained an Environmentally Oriented Law Firm, familiar with matters of this nature, to perform the due diligence necessary to insure compliance with the State and Federal Laws. We feel certain that our operation fulfills not only the letter of the Law, but the spirit in which it was written. As you know, California Legislature is sending out clear messages to generators asking them to recycle their waste whenever possible. Landfills are an expensive disposal method with unending liability.

Although the State Department of Health Services is not responsible for the management of non-hazardous wastes, we feel obligated to inform your office of our activities. Refer to Section 66305 (c) of Title 22, Division and Chapter 30 California Code of Regulations, the proper classification of hydrocarbon contaminated soils. Brent Petroleum Corp. has carefully tested the asphalt product we produce, and have found that within certain parameters, this soil does not effect the specifications or leaching qualities of the products produced. The soil clearly is an alternative to higher priced virgin products, and can be used directly with no pre-treatment into our system. Although, the system did require modification to comply with local Air Quality Management District Standards. Brent Petroleum is awaiting final approval of our T.S.D. Part B application for treatment of hazardous liquid waste. Currently, we are authorized to sign California Hazardous Waste Manifests. Our current status requires regular inspection from D.H.S.

representatives. Brent has in the past, and intends in the future, to make available all documentation relating to this activity.

Recently a senior investigation visited the Brent site, as well as our Liquid Processing Operation. He has verbally informed us that we are in substantial conformance. Brent Petroleum retains the services of an independent firm to monitor compliance with S.C.A.Q.M.D. statue 1166. They visit our site twice each week and no violation has been recorded. Additionally, S.C.A.Q.M.D. officers visit our site weekly as part of their normal route, again no violations have been recorded.

Brent has also recently obtained product liability insurance for the asphalt products we are manufacturing. We have not received any negative feedback in reference to our product.

Brent Petroleum Corporation as part of our normal Due Diligence is requesting your departments assistance in obtaining documentation on the proper classification of the Hydrocarbon contaminated soil we accept. Based upon Section 66305. We believe the soil is properly classified as non-hazardous. We substantiate our position by referencing, communication with your office, previous correspondence and a letter to a major oil company, classifying soil with a T.P.H. greater than 100 as non-hazardous. (Enclosed).

We are requesting copies of other correspondence you might have which would shed light on this potential problem.

The control of the departments assistance in determing when a material is not hazardous. Some kind of guideline would be helpful. S.B. 245 imposses a \$7,500 fee for this determination. We think this fee is appropriate in some cases, but not all. Hopefully, we can avoid this fee from time to time by understanding the criteria in Section 66305 (c) Title 22-CCR and by reviewing the actual documentation the department provides.

Brent Petroleum understands the risk in self certifying (Section 66305(b) CCR. In order to mitigate potential problems we feel this information would be useful.

Y Boxman,

Thank you,

Paul Bouchard

PB:rf

---- INO INTERNI PETRULEUM

ACORD. CERTIFICATE JF INSURANCE

ISSUE DATE (MM/DD/YY)

5/18/89

PRODUCER

X Jardine Emett & Chandler 12397 Lewis, Suite 101 Garden Grove, California 92640 THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

copi4-740-1127

SUB-CODE

COMPANY B

Lloyds and London Companies

INSURED

Brent Petrolcum Corporation 100 Oceangate, Suite 1024 Long Beach, California 90802 LETTER I

COMPANY A

COMPANY C

COMPANY D

COMPANY E

COVERAGES ...

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

		**			
CO .TR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/L/D/YY)	ALL LIMITS IN THOUSANDS
x ⁽	GENERAL LIABILITY	•			GENERAL AGGREGATE \$
••	COMMERCIAL GENERAL LIABILITY				PRODUCTS COMPLODE ACCORDATE .
	CLAIMS MADE: X OCCUR.	M89F30828	4/21/89	4/21/90	PERSONAL & ADVEDTICING INTUING
	OWNER'S & CONTRACTOR'S PROT.		_, _, _,	-,,,	EACH OCCUPRING
				•	FIRE DAMAGE (Any one fire)
	.				MEDICAL EXPENSE (Any one person) &
j	AVTOMOSILE LIABILITY				COMBINED
	ANY AUTO				SINGLE \$
	ALL OWNED AUTOS				BODILY
	SCHEDULED AUTOS				INJURY \$ (Per person)
	HIRED AUTOS				BODILY
	NON-OWNED AUTOS				NJURY \$ (Per sccident)
	GARAGE LIABILITY				PROPERTY
					DAMAGE \$
E	EXCESS LIABILITY				EACH AGGREGATE
					OCCURRENCE \$ \$
	OTHER THAN UMBRELLA FORM				
	WORKER'S COMPENSATION		•		STATUTORY
	ONA				8 (EACH ACCIDENT)
	EMPLOYERS' LIABILITY				\$ (DISEASE - POLICY LIMIT)
					\$ (DISEASE_EACH EMPLOY
•	THER				

description of operations/locations/vehicles/restrictions/special items

This certificate is issued as evidence of insurance pending issuance of policy.

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF. THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Ed Gottlieb (

007 000328

CACORD CORPORATION 1988

ACORD 25-S (3/88)

January 17, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: CCE FACILITY, CARSON, CALIFORNIA. JOB NO. 89007.

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Coca-Cola Enterprises - West Job No. 89007

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Estimated Total = \$126,000		

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Coca-Cola Enterprises - West Job No. 89007

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If you have any questions, please call us at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver Senior Project Manager

Steven M. Myers, R.G. President

/weh

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Accepted by:		
Title:		
Date:		

Brent Petroleum Corporation

Telephone (213) 432-5991 Telex: 188030-BPC Oil Fax: (213) 437-7815 100 Oceangate, Suite 1024 Long Beach, CA 90802

September 7, 1989

Bob McCormick Alternative Technology Section Toxic Substances Control Division

Dear Mr. McCormick,

Brent Petroleum Corporation, currently an I.S.D. facility (CAD #98145446) located in Wilmington, California has begun accepting certain non-hazardous hydrocarbon contaminated soils. These soils are being used as a replacement component in the manufacture of several grades of commercial asphalt. Brent has retained an Environmentally Oriented Law Firm, familiar with matters of this nature, to perform the due diligence necessary to insure compliance with the State and Federal Laws. We feel certain that our operation fulfills not only the letter of the Law, but the spirit in which it was written. As you know, California Legislature is sending out clear messages to generators asking them to recycle their waste whenever possible. Landfills are an expensive disposal method with unending liability.

Although the State Department of Health Services is not responsible for the management of non-hazardous wastes, we feel obligated to inform your office of our activities. Refer to Section 66305 (c) of Title 22, Division and Chapter 30 California Code of Regulations, the proper classification of hydrocarbon contaminated soils. Brent Petroleum Corp. has carefully tested the asphalt product we produce, and have found that within certain parameters, this soil does not effect the specifications or leaching qualities of the products produced. The soil clearly is an alternative to higher priced virgin products, and can be used directly with no pre-treatment into our system. Although, the system did require modification to comply with local Air Quality Management District Standards. Brent Petroleum is awaiting final approval of our T.S.D. Part B application for treatment of hazardous liquid waste. Currently, we are authorized to sign California Hazardous Waste Manifests. Our current status requires regular inspection from D.H.S.

representatives. Brent has in the past, and intends in the future, to make available all documentation relating to this activity.

Recently a senior investigation visited the Brent site, as well as our Liquid Processing Operation. He has verbally informed us that we are in substantial conformance. Brent Petroleum retains the services of an independent firm to monitor compliance with S.C.A.Q.M.D. statue 1166. They visit our site twice each week and no violation has been recorded. Additionally, S.C.A.Q.M.D. officers visit our site weekly as part of their normal route, again no violations have been recorded.

Brent has also recently obtained product liability insurance for the asphalt products we are manufacturing. We have not received any negative feedback in reference to our product.

Brent Petroleum Corporation as part of our normal Due Diligence is requesting your departments assistance in obtaining documentation on the proper classification of the Hydrocarbon contaminated soil we accept. Based upon Section 66305. We believe the soil is properly classified as non-hazardous. We substantiate our position by referencing, communication with your office, previous correspondence and a letter to a major oil company, classifying soil with a T.P.H. greater than 100 as non-hazardous. (Enclosed).

We are requesting copies of other correspondence you might have which would shed light on this potential problem.

We are

requesting the departments assistance in determing when a material is not hazardous. Some kind of guideline would be helpful. S.B. 245 imposses a \$7,500 fee for this determination. We think this fee is appropriate in some cases, but not all. Hopefully, we can avoid this fee from time to time by understanding the criteria in Section 66305 (c) Title 22-CCR and by reviewing the actual documentation the department provides.

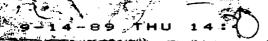
Brent Petroleum understands the risk in self certifying (Section 66305(b) CCR. In order to mitigate potential problems we feel this information would be useful.

Y Box Mann,

Thank you,

Paul Bouchard

PB:rf



ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

5/18/89

PRODUCER

X
Jardine Emett & Chandler
12397 Lewis, Suite 101
Garden Grove, California 92640

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND. EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

copi 4-740-1127

SUB-CODE

COMPANY A

Lloyds and London Companies

INSURED

Brent Petroleum Corporation 100 Oceangate, Suite 1024 Long Beach, California 90802 COMPANY C

LETTER

COMPANY D

COMPANY E

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES, LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

					•	
LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUS	iands
$ _{\mathbf{X}}$	GENERAL LIABILITY				GENERAL AGGREGATE	6
1	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/ORS AGGREGAT	E \$ 7 000
	CLAIMS MADE: X OCCUR.	M89F30828	4/21/89	4/21/90	PERSONAL & ADVERTIGINAL METAL	1,000,
1	OWNER'S & CONTRACTOR'S PROT.				EACH OCCUPRENCE	1,000,
					FIRE DAMAGE (Any one tire)	1,000,
	• .				MEDICAL EXPENSE (Any one person	•) \$
1	AUTOMOBILE LIABILITY .				COMBINED	
	OTUA YMA				SINGLE &	
	ALL OWNED AUTOS				BOOKY	
1	SCHEDULED AUTOS				NUURY \$ (Per person)	
l	HIRED AUTOS				BODIL ?	
	NON-OWNED AUTOS		•		INJUHY \$ (Per accident)	
	GARAGE LIABILITY				PROPERTY .	
l					DAMAGE	
[EXCESS LIABILITY		•		EACH	41,45% (478
					√. DURRENÆE S	
	OTHER THAN UMBRELLA FORM		-			
	WORKER'S COMPENSATION				STATUTOR:	
ı						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

This certificate is issued as evidence of insurance pending issuance of policy.

CERTIFICATE HOLDER

OTHER

AND

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10. DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Ed Gottlieb

007 000336

(EACH ACCIDENT)

(DISEASE - POLICY LIMIT)

(DISEASE - EACH EMPLOYEE)

GACORD CORPORATION 198

DEPARTMENT OF HEALTH SERVICES TOXIC SUBSTANCES CONTROL PROGRAM REGION 4 246 WEST BROADWAY, SUITE 350 LONG BEACH, CA 90802 (213) 590-4868



January 29, 1990

Mr. Peter Beaver Senior Project Manager Coca Cola Enterprises - West/U.S. Technical Environmental Consulting, Inc. 1414 West Broadway Road, Suite 150 Tempe, AZ 85282

Dear Mr. Beaver:

ACTIVITY FEE PROGRAM

By your letter of December 11, 1989 to the Department of Health Services (Department) you have identified your client, Coca Cola Enterprises - West, as the party primarily responsible for taking action to characterize and remedy any public health and/or environmental threats posed by any uncontrolled releases of hazardous substances at 19875 Pacific Gateway Drive in Carson, CA. Pursuant to legislation (Chapter 269, Statutes of 1989) which was recently signed into law by the Governor, you are obligated to pay activity fees to partially cover the Department's cost of evaluating and overseeing your actions to characterize and satisfactorily remediate this site. This includes the evaluation of the site assessment report you submitted and providing you with recommendations for future remedial actions.

Chapter 269 sets out specific fees for the various phases of activity associated with characterizing and abating hazardous substance release sites based on the relative size of each site as estimated by the Department. Enclosed are the various definitions of site and activity sizes as set forth in Chapter 269 as well as the fee schedule. For purposes of establishing a fee for the first phase of activity being conducted at Coca Cola Distribution Facility, the Department has made a preliminary determination that the site is a medium sized site as defined by Chapter 269. You should be aware that the law does allow the Department to make adjustments to initial site size determinations so that fee levels may be raised or lowered for subsequent phases of activity based on additional data. However, the law does not allow for retroactive application of such adjustments.

The Department has also made a determination that a Preliminary Endangerment Assessment (PEA) must be conducted at this site to determine whether it will be necessary to take some type of initial removal or remedial action to stabilize site conditions to reduce any acute public

Mr. Peter Beaver page 2
January 29, 1990

health and environmental threats posed by currents site conditions. The fee for conducting a PEA is \$ 7,500 regardless of site size.

Chapter 269 requires the State Board of Equalization (Board) to collect the fees established by the Department under the Act. You may expect to receive a demand from the State Board in the near future based on the fee levels described herein. As each phase of activity associated with a fee is completed at the site, a demand for the fee that is associated with the next phase of activity will be sent to you by the State Board. In cases where fees are not paid promptly, the State Board is empowered to seize personal as well as business assets and take other enforcement actions to ensure payment.

Please contact Manny Alonzo at (213)590-4904 if you have any questions regarding this new program or required actions at the site.

Sincerely,

John J. Kearns

Regional Administrator

Enclosures

cc: Raul Ramirez Coca Cola Enterprises West 1334 South Central Avenue Los Angeles, CA 90021

SB 475: Site Size Definitions

Site Sizes

Small site - RI/FS' cost less than \$250K and FRA+ less than \$1M

Medium site - RI/FS cost between \$250K and \$1.25M and FRA between \$1M and \$5M

Large site - RI/FS cost between \$1.25M and \$5M and FRA between \$5M and \$20M

Extra-Large site - RI/FS cost greater than \$5M and FRA greater than \$20M

Removal Action (RA)

Small RA - less than \$500K

Medium RA - \$500K to \$1M

Large RA - \$1M to \$5M

Extra-Large RA - greater than \$5M

Operation and Maintenance (O&M)

Small O&M - Annual cost less than \$500K

Medium O&M - Annual cost \$500K to \$1M

Large O&M - Annual cost \$1M to \$5M

Extra-Large O&M - Annual cost greater than \$5M

^{*} RI/FS = Remedial Investigation/Feasibility Study

^{*} FRA = Final Remedial Action

SB 475 Fee Schedule

Site Size Estimation Fee

\$5,000 (applicable to all sites)

Endangerment Assessment Fee

\$7,500 (applicable to all sites)

Removal Action Oversight Fee

Variable, dependent on site size:

\$14,500 (small sites) \$37,000 (medium sites) \$73,500 (large sites) \$147,000 (extra-large sites)

Remedial Investigation/Feasibility Study (RI/FS) Oversight Fee

Variable, dependent on site size:

\$21,500 (small sites) \$43,000 (medium sites) \$85,500 (large sites) \$200,000 (extra-large sites)

Remedial Action Plan (RAP) Oversight Fee

Variable, dependent on site size:

\$4,500 (small sites) \$9,000 (medium sites) \$18,000 (large sites) \$38,000 (extra-large sites)

Remediai Design Oversight Fee

Variable, dependent on site size:

\$7,500 (small sites) \$14,500 (medium sites) \$29,000 (large sites) \$80,000 (extra-large sites)

Final Remedial Action (FRA)

Oversight Fee

Variable, dependent on site size:

\$10,000 (small sites) \$20,000 (medium sites) \$40,000 (large sites) \$106,000 (extra-large sites)

Operation and Maintenance (O&M)
Oversight Fee

Variable, dependent on site size:

\$6,000 per year (small sites) \$12,000 per year (medium sites) \$14,000 per year (large sites)

007 000340

\$34,000 per year (extra-large sites)

Prorating/Adjusting SB 475 Fees

I. Prorating Fees

SB 475 fees take effect July 1, 1989. Fees for phases of site investigation and cleanups in progress as of that date are to be prorated as described below. Fees will not be assessed for phases completed prior to July 1, 1989; instead, there will be 100% cost recovery per H&SC 25360.

To prorate the fee:

- 1. identify phase of activity in progress on July 1, 1989, and site or activity size;
- 2. identify defined length of activity;
- 3. divide activity fee by number of months defined for activity;
- 4. the result is the monthly fee quotient;
- 5. multiply number of months the site has been in the phase of activity (as of July 1, 1989) by monthly fee quotient; and
- 6. subtract that amount from total fee.
- 7. The result is the prorated fee.

For fee proration purposes, SB 475 stipulates the following timeline for phases of site activity:

Estimation of Site Size	3 months (all sites)
Preliminary Endangerment Assessment	3 months (all sites)
Removal Actions	4 months (small sites) 6 months (medium sites) 12 months (large sites) 24 months (extra-large sites)
Remedial Investigation/	9 months (small action) 17 months (medium action) 33 months (large action) 60 months (extra-large action)
Remedial Action Plan (RAP)	3 months (small sites) 3 months (medium sites) 6 months (large sites) 9 months (extra-large sites)
Remedial Design (RD)	2 months (small sites) 3 months (medium sites) 6 months (large sites) 12 months (extra-large sites)
Final Remedial Actions	A
Operation and Maintenance (O&M)	12 months per year (all sites)

For fee assessment purposes, RI/FS activity will not be considered to be commenced prior to the date that DHS approved an RI/FS workplan. For determining the start date for other phases of activity that may be ongoing, the following will apply:

- the RAP phase begins on the date the final RI/FS report was approved by DHS.
- the RD phase begins on the date the final RAP was approved by DHS.
- the final remedial action phase begins on the date the final remedial design was approved by DHS.
- the O&M phase begins on the date that the site cleanup certification form was signed by DHS.

II. Adjusting Fees

DHS is authorized to reclassify site size at any time. However, for fee assessment purposes, the new size classification would only apply to fees assessed for subsequent phases of site investigation and cleanup activity and not to completed or current phases.

III. Additional Charges to RPs

Although SB 475 has established specific fees to be charged to RPs for site investigation and cleanup oversight, the law continues to require DHS to recover all identifiable costs beyond those covered by the fees. Essentially, the new fees are analogous to "downpayments" against future cost recovery actions, since actual oversight costs will be in excess of the fees established by SB 475.

TOLRONIE

STATE OF CALIFORNIA OFFICE MEMO STD. 100 (REV. 10/87) 87 46331 DATE 2-08.90 ms Peter Bearls U.S. TERH ROOM/STA. NO. FROM: PHONE NUMBER ATSS 🔲 SUBJECT:

The Preliminary Endangerment Assessment (PEA) was established as part of the Department of Health Services'(DHS) Toxic Substances Control Program(TSCP) hazardous waste site cleanup process effective July 1, 1989. This assessment is defined in Section 25319.5, Chapter 6.8, Division 20 of the California Health and Safety Code as:

"25319.5. Preliminary endangerment assessment means an activity which is performed to determine whether current or past waste management practices have resulted in the release or threatened release of hazardous substances which pose a threat to public health or the environment."

Based on this definition, the PEA has been designed specifically to be the initial TSCP process for evaluating potential hazardous substance release sites. The PEA has three primary objectives. First, the assessment must determine if a release of hazardous substances has or has not occurred at the site. The second objective is to determine if an immediate stabilization action is warranted at the site to mitigate direct threats to public health and the environment posed by a release of hazardous substances or by situations that may result in a release of hazardous substances. In cases when a release of hazardous substances has occurred at a site, a third objective is to determine if the site poses a threat to Public health and the environment and requires remediation.

Private parties are now allowed to participate with the TSCP in conducting initial site evaluations as the result of the passage of Senate Bill 475. This bill added Section 25347.6 to the Health and Safety Code to allow the TSCP to oversee "removal or remedial action" work carried out by private parties on a fee-for-service basis. Activities such as the PEA are, by statutory definition (Health and Safety Code, Section 25322), considered to be within the category of remedial actions. The fee prescribed for the oversight of the PEA in Section 25347.6(d) is \$7,500.00.

Pursuant to Section 25347.6, the PEA process has been separated into two distinct phases. The first phase, collection of data and preparation of a PEA report, is the responsibility of the private party requesting that a site be evaluated. The second phase, consisting of evaluation of the data/PEA report and issuance of a determination on the need for cleanup actions at the site, is the responsibility of the TSCP.

The overall roles and responsibilities of the TSCP and private parties in the PEA process are shown on Figure 1. The TSCP staff are responsible for:

1) initiating the billing of the private party by the State Board of Equalization for the \$7,500.00 fee; 2) meeting with the private party to explain the PEA process and PEA report requirements; 3) conducting an agency records check and site inspection to familiarize themselves with the site being evaluated; 4) providing guidance to the private party relative to preparation of the PEA report; 5) overseeing any sampling done at the site by the private party; 6) reviewing the PEA report for completeness and

issuance of a determination of completeness; and 7) evaluating the data in the report and making a determination regarding the need for site cleanup actions at the site.

Several options are available to the TSCP staff in making a recommendation based on review of a PEA report. A no "No Further Action" recommendation is made in cases when no release of hazardous substances has occurred and this situation can be clearly documented and in cases when a release has occurred but the site does not present a threat to public health and the environment. In cases where a release has been documented and a threat exists, the recommendation would consist of moving the site forward into characterization and formal remediation. All sites considered to pose a medium to high threat will be required to carry out characterization and remediation activities under direct TSCP oversight. For sites considered to pose a low threat, the private parties will be provided with a list of approved site characterization and remediation procedures and they will be allowed to carry out this work without direct TSCP oversight. Two other recommendations are also possible when contamination exists. A stabilization action may be recommended for sites that pose an immediate threat to public health and the environment. Stabilization may consist of fencing the site, capping the contaminated area, removing degraded containers of hazardous substances, and other similar actions. A final option for a recommendation is to refer cleanup oversight of a contaminated site to another agency. This situation would occur in cases such as when the contamination is associated with a leaking underground storage tank. This sites would be referred because the Regional Water Quality Control Boards (RWQCB) and County Health Departments have been given the lead responsibility in this area Pursuant to Chapter 6.7. Division 20 of the California Health and Safety Code. The site would also be referred if other agencies have already initiated oversight of cleanup operations.

The primary responsibility of a private party in the PEA process is preparation of the PEA report. Specific responsibilities of the private party include: 1) submitting a written request to the TSCP to complete a PEA on a specific site; 2) payment of the \$7,500.00 to the to the State Board of Equalization when billed for the fee; 3) meeting with the TSCP staff to receive the PEA Report Manual and to discuss completion of the assessment; 4) preparation of the PEA report in accordance with the specifications provided by the TSCP; and 5) modification of the report if necessary in accordance with a "Notice of Deficiency" issued by the TSCP staff and resubmittal of the report.

Several points regarding preparation of PEA reports need to be emphasized and kept in mind throughout the report preparation process. The primary focus of the reports must be on presenting the site specific data required by the PEA manual as clearly and concisely as possible. Using lists, bulleted outlines, tables and figures are preferable over long discussions. Failure to clearly provide the data required in the initial report will result in issuance of a "Notice of Deficiency" by the TSCP staff subsequent

to review of the report. If the report is not modified and resubmitted within 30 days or if the report is resubmitted in a form that is not responsive to the Notice of Deficiency it will be rejected and the PEA process for the site will be terminated. Reinitiation of the assessment process will require payment of a second \$7,500.00 fee.

Since sites will be ranked in accordance with the <u>Uncontrolled Hazardous Waste Site Ranking System; A Users Manual</u> (reference: 40 Code of Federal Regulations, part 300 Appendix A), factors required under the Hazard Ranking System (HRS) are particularly important. The PEA manual provides suggested references for the various information requirements. Use of these references is not mandatory but in the event of conflicting information, these references will be considered authoritative unless a private party can clearly prove otherwise.

It may be appropriate to abbreviate the PEA report in some cases. This situation would occur when Section A, Site History and Description; Section B, Apparent problem; and Section C, Sampling Activities, clearly document that no release of hazardous substances has occurred and no threat of a release exists. In these cases, Section D - Factors Related to Known or Potential Site Contamination, Section E - Analysis of Pathways for Hazard Potential, and Section F Community Assessment may be deleted. If the report is abbreviated, Section G - Conclusions should clearly state the basis for not including Sections D, E and F private parties are encouraged to work closely with the TSCP staff assigned to oversee the data collection effort in preparing the report and when making a decision on not including sections.

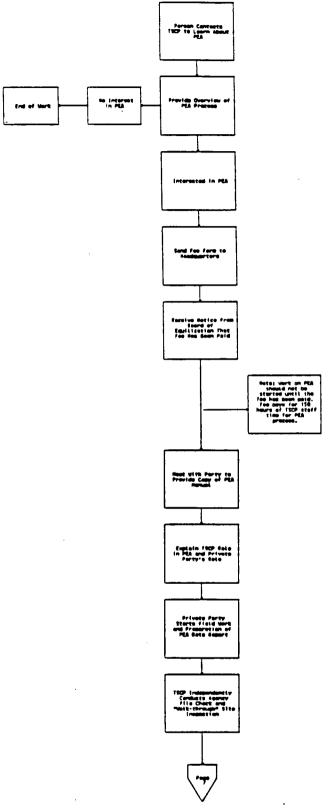
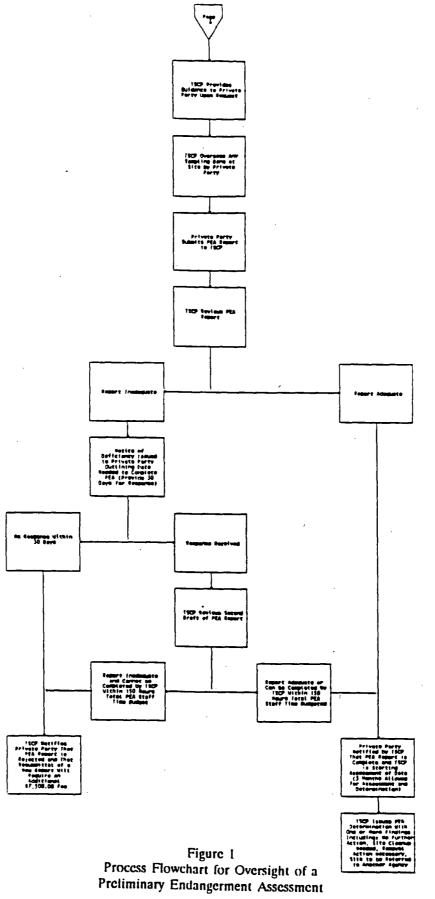


Figure 1
Process Flowchart for Oversight of a
Preliminary Endangerment Assessment





Draft 12/22/89

PRELIMINARY ENDANGERMENT ASSESSMENT CHECKLIST

	Sec	tion_	Location In Report	Adequate/ Inadequate
			·	
	Site Histor	y and Description		
-		•	•	
	- Sit	E Location:		
	1)	Facility Name		· .
	2)	Street Address		 `
	3)	Mailing Address		
	4)	Phone Number	<u></u>	
	5)	Other Names		
	6)	EPA ID Number		
	7)	ASPIS Number		
	8)	Assessor's Parcel Number and Map		
	9)	Township, Section, Range, Meridian		
	10)	Map of Site Location		
	- Pa	st and Current Site Activities:		
	1)	Business Type/Years of Operation		
	2)	Facility Ownership/Operators	·	
	3)	Property Owners		
	4)	Process Description:		
		a) Type/quantities of products		·
		b) List of materials/chemicals used		

	Section	L		Location In Report	Adequate/ Inadequate	
		c)	Descriptive overview of process			
		d)	Map of All Site Features			
-	Hazard	ous Was	te Management			
	1)		Stream Identification and Waste			
		Quan	tities			
	2)	On Site	e Storage, Treatment, and Disposal:			
		a)	Description of storage units			
		b)	Description of treatment units			
		c)	Description of disposal practices			
		d)	Description of containment of storage,			
			treatment, disposal units			
		e)	Description of recovery/recycling			
			practices			
		Ŋ	Off-site wastes recovered; origin, type,			
			quantity			
	3)	Regulat	tory Status Identification			
	4)	Agency	Inspection Results Summary			
Appare	Apparent Problem					
•	Summary of Nature of Contamination at Site					

B.

		Section		In Report	Adequate/ Inadequate
	-	Summa	ry of Contaminants of Concern		
	•	Justifica	ntion for "No Further Action" Recommendation		
C.	Sampli	ng Activi	ities .		
	•	Past Sa	mpling Efforts		
	•	PEA S	ampling Efforts		
	-	Analysi	s of Sampling Results		
D.	Factors	s Related	to Known or Potential Site Contamination		
		Hazard	ous Substances/Waste at the Site		·
	-	Charac	teristics of Hazardous Substances/Wastes:		
		1)	Physical State/Color		
		2)	Molecular Weight		
		3)	Specific Gravity or Density		
		4)	Solubility		
		5)	Freezing/Boiling/Melting Points		
		6)	Vapor Pressure		
		7)	Henry's Constant		

Section	<u>l</u>		Location In Report	Adequate/ Inadequate
8)	Flash	point		
9)	Upper	r and Lower Explosive Limits		
10)	NFPA	Ignitibility Level Rating		
11)	NFPA	Reactivity Level Rating		
12)	Incom	patible Compounds		
13)	рН			
14)	Toxic	ity/Persistence Rating		
Exposi	ure Rou	ites and Toxicity:		
1)	Expos	sure Data:		
	a)	Description of Exposure Routes	·	
	b)	Description of Dispersion Mechanisms		
	c)	Timing of Releases		·
2)	Toxic	ity Data:		
	a)	Description of Relative Toxicity		
	b)	General Toxicological Properties		
	c)	Standards (RIDs, etc.)		
Soil/D	irect C	ontact Pathways		
1)	Desc	ription of Soil Contamination		
	and	Recommendation		
2)	Торо	graphy Description		
3)	Land	Use and Zoning Description		

Section		Location In Report	Adequate/ Inadequate
4)	Description of Environmental Impacts		
5)	Hydrologic Soil Group		
6)	Description of Soil Permeability	_ 	
7)	Description of Slope of Site		
8)	Description of Soil Stability/Seismic Conditions		
9)	Description of Site Accessibility		
10)	Description of Containment Measures		
11)	Locations of Sensitive Facilities (Schools, etc.)		
12)	Locations of Sensitive Habitats		
	•		
Factors	Related to Water Pathways:		
1)	Description of Water Contamination		
	and Remediation		
2)	Net Seasonal Perception		
3)	Description of Hydrology .		
4)	For Interconnected Aquifers:		
	a) Distance to Nearest Well		
	b) Population Using Water		
	c) Irrigated Areas		
5)	Aquifers Not Interconnected:		
	a) Distance to Nearest Wells		
	b) Population Using Water From Each		
	Aquiler		
	c) Irrigated Areas for Each Aquifer		

Section		Location In Report	Adequate/ Inadequate
6)	Ground Water Uses		
7)	One Year/24-Hour Rainfall		
8)	Distance to Nearest Downhill Surface Water		
9)	Runoss Flow Distance and Water Intake		
	Locations		
10)	Runosf Control Measures		
11)	Floodplain Identification		
12)	Description of Migration Routes of		
	Substance		
13)	Description of Location and Uses of Surface		
	Water Intakes		
14)	Population Using/Acres Irrigated From Each		
	Water Intake		
15)	Distance to Wetland/Critical Habitat		
16)	Sensitive Habitats That May be Affected		
	by Runoff		
Factors	Related to Air Pathways:		
1)	Description of Air Contamination and		
	Remediation		
2)	Wind Direction/Velocity		
3)	Description of Local Climate		
4)	Description of Timing of Release		
5)	Description of Disparsion Poutes		

	Section	<u>on</u>	Location In Report	Adequate/ Inadequate
	6)	Populations of Residents/Workers	·	
	7)	Location/Distance to Sensitive Facilities		
		(Schools, etc.)		
	8)	Location/Distance to Development Areas		
		(Commercial/Industrial, etc.)		
	9)	Description of (Type, Location and Distance)		
		Sensitive Areas (Wetlands, etc.)		
E. An	alysis of Pa	athways for Hazard Potential Determination		
•	Know	n Hazard:		
	1)	Contaminants Identified		
	2)	Target Populations/Environments Described		
	3)	Effects on Target Populations/Environments		
		Described		
-	Poten	itial Hazard:		
	1)	Contaminants Identified and Fate Described		
	2)	Potential Populations/Environments Identified		
	3)	Potential Effects on Human/Environmental		
		Targets		
•	4)	Uncertainty Factors		
-	No P	otential Hazard:		

		Section	Location In Report	Adequate/ <u>Inadequate</u>
		1) Factors Showing No Hazard Exists		
F.	Comr	nunity Assessment		
	-	Summary of Community Concern		
	•	Concerns/Issues Identified by Locals		
	•	Community Views on Actions at Site		
	-	Recommended Information Repositories		
	•	Names/Addresses of Interested Parties		
G.	Conclu	isions		
	-	Release/Potential Release Identified		
	-	Threat to Public Health/Environment Identified		
	•	Stabilization Action Need Identified		

May 21, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, HARGIS AND ASSOCIATES - MONTROSE CHEMICAL RESULTS OF MONITORING WELL INSTALLATION. JOB NO. 89007.

Dear Raul:

We have been notified by a representative of Hargis and Associates, at the request of their client Montrose Chemical Corporation, of the results of the installation of the two monitor wells installed on and adjacent to the Pacific Gateway Drive site. In summary, a substantial amount of a volatile hydrocarbon material was found on the surface of the water table, at a depth of approximately 60 feet, in the wells. This is significant because no similar material occurred in any of the other wells installed in conjunction with the Montrose project. Those other wells are all located in an area to the south of the Carson site.

The presence of this material on the water table directly under the Pacific Gateway Drive site does not imply that a release occurred from the site. It is possible that the material is migrating from a source to the north, which is the upgradient direction.

The results of the work performed for the Montrose project are reported directly to the U.S. Environmental Protection Agency, since the Montrose site is under an EPA consent order. Also in the area within one mile are five other sites where subsurface investigations are being performed, the results of which are also being reported to EPA. In addition, the California DOHS and Regional Water Quality Control Board are also involved.

The result of all of this is that there will probably be EPA and California involvement in the Pacific Gateway Drive site and others to the north. The agencies could request that additional investigations be performed or even that remediation efforts be undertaken.

Coca-Cola Enterprises - West Pacific Gateway Drive

Our recommendation is to do nothing with regard to any further environmental work that might be required, until contacted by the respective agencies. However, we do recommend that Coca-Cola not enter into any final agreement with any previous owners of the site at this time.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver

Manager Remedial Services

Steven M. Myers, R.G.

President

/weh

OGDEN ENVIRONMENTAL SERVICES, INC.



POST OFFICE BOX 85178 SAN DIEGO, CALIFORNIA 92138-5178 #619, 455-3045 10955 JOHN JAY HOPKINS DRIVE SAN DIEGO. CALIFORNIA 92121

January 22, 1990

Mr. Peter A. Beaver
U.S. Technical Environmental
 Consulting, Inc.
1414 W. Broadway Road, Suite 150
Tempe, AZ 85282

Subject: Torrance, CA Oily Soil Site

Dear Mr. Beaver:

We have received and reviewed the analytical data you sent me about January 10, 1990 concerning approximately 1600 cubic yards of petroleum hydrocarbon contaminated soil at your client's Torrance, CA site. It is presumed the excavated soil stockpile shown in your Figure 4 is the material of interest.

Based on the data you submitted, it appears the soil is suitable for treatment at our Stockton facility. However, to certify the material as such, the following tests need to be conducted by you to complete the certification. The tests required are as follows:

- 1. Determination of total concentration of the 17 required metals on four samples from the stockpile. Comparison with Title 22 TTLC and STLC values.
- 2. If necessary, CalWet tests for comparison to STLC levels for the required metals on four samples.
- 3. Two more samples for fish bioassay toxicity testing. Only two samples were tested (they passed).
- 4. If there is reason to believe that any other regulated contaminants such as PCBs, pesticides, herbicides, process wastes, etc. are present, tests must be conducted and meet CA DHS standards.

As discussed in our January 10 telephone conversation, we're in the process of developing our fuel-waste soil treatment pricing structure. At this point, we're expecting our treatment price to be \$150.00/T, transportation excluded but certificate of destruction included. We can arrange for trucking or you (or your client) can handle it and the soil can be moved on a Bill of Lading. We expect to begin accepting soil about March 1, 1990 and are ready to accept commitments from generators now.

Our Stockton facility is available now for visitation. May I suggest we meet in person with your client as soon as possible to arrange for us to handle this waste management issue.

Very truly yours

lobert C. Haney

Sales Manager

RCH/mg

December 15, 1989

Mr. Bob Woods Analytical Technologies, Inc. 2113 South 48th Street, Suite 107 Tempe, Arizona 85282

RE: BIO-TOX TESTING RESULTS.

Dear Mr. Woods:

I would like to request the release of the results of the Biological Toxicity test performed on sample numbers SC-2 and SC-4, collected from our Torrance California facility, to U.S. Technical Environmental Consulting, Inc. Their address is 1414 West Broadway Road, Suite 150, Tempe, Arizona, 85282.

Your cooperation in this matter will be much appreciated.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

J. Edward Todd
Director, Occupational/Environmental Safety

0639-02595

WORK ORDER/CONTRACT Field Services

	Inc.
An Environmental Testing Sel 16371 Gothard Street Suite G Huntington Beach, CA 92647	(714) 842-6077 Fee (714) 842-1801
TERRA TECH LABS PROJECT NUMBER 1095-2 START TIME 10:00-10:30 CONTACT COMPANY/PERSON Virgil/WTI BILL TO Wesfern Technologies, Inc ADDRESS 3737 E. Broadway Rd P.O. Box 21391, Phoenix, AZ 85036 ORDER TAKEN BY: Tom. JOB ORDERED BY: Virgil	PO NUMBER NA START DATE 9-26-89 SITE PHONE NUMBER NA 626 43 PROJECT NAME Coco - Cola PROJECT ADDRESS 19875 facific Cafe Torrance, CA DATE OF ORDER 9-25-89 PERSONNEL Tom.
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Geotechnician (Hours) Other hand anger benfal. TERMS AND CONDITIONS: I (we), the undersigned, understand conditions set forth herein. I (we) also acknowlede that it is to placing an order for work. A current fee schedule can be obtate resulting from this contract is unpaid and legal action results, the fees. In addition, it is acknowledged that the above described we terms are net 30 days. Debts over 30 days will be subject to a 1 is not received in 60 days. Signature Company Name	s the responsibility of the client to confirm current prices prior aimed by contacting our office. It has event the invoice prevailing party will be rewarded all reasonable attorney's work has been completed in a satisfactory manner. Payment
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WORK ORDER/CONTRACT Field Services

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16371 Gothard Street Suite G Huntington Beach, CA 92647	(714) 842-6077 Fax (714) 842-1891
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Newport Beach, CA 92600	Torrance CA.
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1/:-/	ained by contacting our office. In the event the invoice to prevailing party will be rewarded all reasonable attorney's work has been completed in a satisfactory manner. Payment 10% annual interest charge. All discounts are void if payment.
Signature / May / Owners	Date 9-27-87
Company Name	Title
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WORK ORDER/CONTRACT Field Services

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An Environmental Testing Service

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DAILY REPORT OF GRADING OBCERVATION



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14 HUGHES, SUITE 8-161
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DAILY REPORT OF GRADING OBCERVATION



STONEY-MILLER CONSULTANTS, INC 14 HUGHES, SUITE B-101 IRVINE, CA 02718 (714) 380-4888

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STONEY-MILLEN CONSULTANTS, INC.
14 HUGHES, SUITE B-161
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SOUTHERN CALIFORNIA GAS COMPANY PIPELINE LOCATION INFORMATION

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Coca-Cola Enterprises In P.O. Box 1778 Atlanta, GÁ 30301 404 676-2100 Telecopier: 404 676-7165



Coca-Cola Enterprises A Bottling System

Legal Division

December 19, 1990

Vincent K. Carroll, Esq. 2105 East 4th Street Long Beach, California 90814

Re: Moreco

Dear Mr. Carroll:

Thank you for your letter of December 12, 1990, with the attachments of the manifests and the bills of lading.

The information that you provided relates to nonhazardous soil that was sold to Brent Petroleum Corporation. As I understand the facts, this soil was used by Brent Petroleum Corporation to manufacture asphalt.

The manifests and bills of lading do not suggest that any of the dirt went to any other company or location than Brent Petroleum. Thus, I am still unable to respond to your request for the removal of the dirt on Moreco's property due to lack of information.

If you will forward information relating to the location of the Moreco property, the alleged hazardous constituents of the dirt on the Moreco property, and any manifest, documentation, or other information relating to the origin of that dirt, I will be able to respond to your request. The documentation you supplied shows that the nonhazardous soils were properly disposed.

Should you have any questions, or need further information, please feel free to contact me at 404/676-2361.

Sincerely yours,

Jeffrey G. Simmons

Real Estate/Environmental

Counter

JGS/jac lvin.doc

Mr. Raul Rameriz Mr. Ed Todd Mr. Steve Myers bcc:

VINCENT K. CARROLL

ATTORNEY AT LAW 2105 EAST POURTH SYREET

LONG BEACH, CALIFORNIA 90814
TELEPHONE (813) 434-9904

PACSIMILE (213) 433-0470

FRANÇIS ROBERT BERGMANN

Post-It™ brand fax transmittal memo 7871 # of pages >

October 26, 1990

Coca-Cola Bottling Company 1334 South Central Los Angeles, CA 90021

Attention: Legal Department

Re: Hazardous Dirt

Dear Sir or Madam:

VINCENT K, CARROLL

STEPHEN E. COCKRIEL

OF COUNSEL JOHN E. CARROLL DONALD F. FORRESTER

I have been retained by Moreco with respect to property it owns in the Cities of Long Beach and Wilmington. After completing an initial investigation and after talking to the Air Quality Control Management District, it has been brought to their attention that hazardous dirt from the Coca-Cola facility at 190th Street in Los Angeles has been dumped on Moreco's premises.

As you are well aware, all parties in the chain who had any connection with the dirt are liable for the removal and cleaning up of the hazardous material. Obviously, this would include Coca-Cola. We feel it is in the best interest of all parties to have the dirt removed and the site cleaned up immediately. Please contact the undersigned at your earliest convenience to discuss the above.

VKC: mbg

cc: Mary Moore

VINCENT K. CARROLL

ATTORNEY AT LAW

OF COUNSEL

JOHN E. CARROLL

DONALD F. FORRESTER

2108 EAST FOURTH STREET

LONG BEACH, CALIFORNIA 90814

TELEPHONE (213) 434-9904

FACSIMILE (213) 433-0470

FRANCIS ROBERT BERGMANN

RECEIVED

December 31, 1990

JAN -7 1991

Jeffrey G. Simmons, Esq. Coca-Cola Enterprises P. O. Box 1778
Atlanta, GA 30301

Re: Moreco

Dear Mr. Simmons:

STEPHEN E. COCKRIEL

Post-it brand fax transmittal memo 7871 of pages > /

To Struck Myers From 1eff Simmons

Co. C.F.

Dept. Phone / 616-236/

Fax # 602-8-29-63/5 Fax 404-5/5-0-2-3/

In response to your letter of December 19, 1990, please allow me to clarify our position. On or about March, 1990, Brent Petroleum leased a large tract of land at 1008 Cervera from my client. As you can see from the bills of lading that were sent to you, the dirt in question was taken to the Cervera property. Mr. Bouchard, the principle of Brent Petroleum, informed my client that he was going to turn this non-hazardous dirt into asphalt. However, this dirt was taken to the Cervera property and dumped without any intention on behalf of Mr. Bouchard or Brent Petroleum to turn it into asphalt. Enclosed with this letter are soil samples that we had taken on the property.

It should be noted that the only reason this land was leased from my client was that at the same time Mr. Bouchard was apparently being removed from another tract of land where he was doing the exact same thing. You may wish to contact Douglas G. Tennant at Kelly, Drye & Warren (213) 689-1300 with regard to related cases against Mr. Bouchard and Brent Petroleum.

Please contact me should you need any further information.

very troly yours,

Vincent K. Carrol

VKC: mbg

VINCENT K. CARROLL

ATTORNEY AT LAW

VINCENT K. CARROLL

OF COUNSEL

JOHN E. CARROLL

DONALD F. FORRESTER

STEPHEN E. COCKRIEL

2105 EAST FOURTH STREET LONG BEACH, CALIFORNIA 90814 TELEPHONE (213) 434-9904

PACSIMILE (213) 433-0470

FRANCIS ROBERT BERGMANN (1927-1989)

RECEIVED

December 31, 1990

JAN -7 1991

Jeffrey G. Simmons, Esq. Coca-Cola Enterprises P. O. Box 1778 Atlanta, GA 30301

Re: Moreco

Dear Mr. Simmons:

Post-it brand fax transmittal memo 7871 of pages > /

To Strick Musers For CCF

Dopt. Finance 404-616-236/

Fax # 602-829-6315 Fax 404-515-023/

In response to your letter of December 19, 1990, please allow me to clarify our position. On or about March, 1990, Brent Petroleum leased a large tract of land at 1008 Cervera from my client. As you can see from the bills of lading that were sent to you, the dirt in question was taken to the Cervera property. Mr. Bouchard, the principle of Brent Petroleum, informed my client that he was going to turn this non-hazardous dirt into asphalt. However, this dirt was taken to the Cervera property and dumped without any intention on behalf of Mr. Bouchard or Brent Petroleum to turn it into asphalt. Enclosed with this letter are soil samples that we had taken on the property.

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Please contact me should you need any further information.

very traty yours

vincent K. Carrol

VKC: mbg



U.S. Technical Environmental Consulting, Inc.

May 14, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE. REMOVAL OF CONTAMINATED SOIL. JOB NO. 89007.

Dear Mr. Ramirez:

Enclosed please find the copies of the Non-Hazardous Waste Data Forms used in the transportation of soil from the Carson project located at 19875 Pacific Gateway Drive, Carson, California. Also, please find enclosed copies of the weight tickets and tickets representing the rental of the loader. In summary, a total of 1628.38 tons was transported to Brent Petroleum Corporation located at 1008 South Cervera Avenue, Wilmington, California.

On Wednesday, March 28, 1990, the work was initiated. The soil was loaded onto end-dump type trucks using a 980C loader. The loader had a bucket capacity of 4 yards and could load a truck in approximately three minutes. After each truck was loaded the load was covered with a tarp. The truck then proceeded to the recycling facility mentioned above. The empty trucks returned to the site for additional loads. In total, six trucks were used to transport the material.

On Thursday, March 29, 1990, the remaining soil was transported to the recycling facility. Brent Petroleum is invoicing you directly for the disposal of the materials and has also provided you with a certificate of reuse for the material. Copies are attached. Please contact us if you have any questions or comments.

Sincerely

U.S. TECHNICAL ENVIRONMENTAL CONSULTING

Peter A. Beaver

Manager Remediation Services

Steven M. Myers, R.G.

President

Copy to: Ed Todd, CCE - Atlanta

Brent Petroleum Corporation

Telephone: (213) 432-5991 Telex: 188030-BPC OiL FAX: (213) 437-7815 100 Oceangate, Suite 1024 Long Beach, CA 90802

CERTIFICATE OF REUSE

GENERAL WASTE	QUESTIONAIRE	COMPLETED_	YES
WASTE PROFILE	FORM	COMPLETED_	YES
T.M. # ISSUED		COMPLETED	066-S
HAZARDOUS		COMPLETED	NO
NON-HAZARDOUS		COMPLETED	YES
R.C.R.A.		COMPLETED	NO

B.P.C. CHARACTERIZATION:

THIS IS TO CERTIFY THAT 1,628.38 TONS OF NON-HAZARDOUS CONTAMINATED SOIL WAS DELIVERED TO BRENT PETROLEUM'S FACILITY ON MARCH 28TH AND 29TH, OF 1990. TRANSPORTED BY- HAWK WING INCORPORATED PER- U.S. TECHNICAL INCORPORATED 1414 W. BROADWAY RD.,STE. 150-TEMPE,AZ 85282 JOB LOCATION- COCA-COLA ENTERPRISE WEST-1334 S. CENTRAL AVENUE-LOS ANGELES, CA ANALYSIS ON FILE.

BRENT PEROLEUM CORPORATION, E.P.A. I.D.# CAD981458466, CERTIFIES THAT THE ABOVE MATERIAL WAS ACCEPTED INTO BRENT'S FACILITY IN COMPLIANCE WITH TITLE 22 OF THE CALIFORNIA HEALTH & SAFETY CODE AND SENATE BILL 4636. THE MATERIAL HAS BECOME THE SOLE PROPERTY OF BRENT PETROLEUM CORPORATION AND IS IN THE PROCESS OF BEING RECYCLED IN ACCORDANCE WITH STATE AND FEDERAL LAWS.

DATE: MARCH 30, 1990

MARGARET A. PIMENTEL, SALES COORDINATOR FORNIA 890

STATE OF CALIFORNIA

FILE-) 89007





NOV 23 1990

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November 21, 1990

CONWAY H. COLLIS

Second District, Los Angeles ERNEST J. DRONENBURG, JR.

PAUL CARPENTER

GRAY DAVIS

ntroller, Socramento

CINDY RAMBO

STATE BOARD OF EQUALIZATION

1020 N STREET, SACRAMENTO, CALIFORNIA (P.O. BOX 942879, SACRAMENTO, CALIFORNIA 94279-0001)

Telephone (916) 739-2582

Dear Feepayer:

Our records indicate that you have been assessed an Activity Fee in connection with a site mitigation overseen by the Department of Health Services (Department). If the site mitigation is performed under a Remedial Action Plan (RAP) approved by the Department or the Regional Water Quality Control Board (Water Board) pursuant to Section 25356.1 of the Health and Safety Code, you may be entitled to a partial exemption from the Disposal Fee and Superfund Tax.

Section 25345.3 of the Health and Safety Code provided an exemption from the Disposal Fee and the Superfund Tax for hazardous waste submitted for disposal pursuant to an approved RAP. This exemption expired on September 30, 1990.

In place of this exemption Senate Bill 1857 (Chapter 1268, Statutes of 1990) created a new, partial exemption for this waste. The new exemption provides that the waste will be assessed fees and taxes at a fraction of the full rates. The rates are as follows:

PERIOD

PERCENT OF APPLICABLE RATE

10/01/90 to 06/30/91 07/01/91 to 06/30/92

45% of applicable rate 55% of applicable rate

These rates apply to both the Disposal Fee and the Superfund Tax.

To qualify for reporting waste disposals at these reduced rates you must have a RAP which has been prepared or approved by the Department of Health Services or the Regional Water Quality Control Board pursuant to Section 25356.1 of the Health and Safety Code. For purposes of this exemption, RAPs do not include remedial orders issued by local agencies, or imminent and substantial endangerment orders issued by the Department or Water Board, or remedial actions ordered by the United States Environmental Protection Agency.

You are required to file special Hazardous Substances Tax (Disposal Fee) and Superfund Tax Returns to report wastes disposed of pursuant to your RAP. Only wastestreams identified in the RAP may be reported on these returns. Wastestreams not addressed in the RAP should be reported on your regular Hazardous Substances Tax (Disposal Fee) and Superfund Tax Returns. The special Hazardous Substances Tax Return will be for waste submitted for disposal during the period 10/01/90 to 12/31/90. It will be due on or before 01/31/91. The special Superfund Tax Return will be for the same period, and will be due on or before 03/01/91.

If you are currently operating pursuant to an approved RAP, please contact us so that we may register you and send you the appropriate returns. If you have more than one site for which a RAP has been issued, you are required to have a separate account with us for each site. To contact us regarding your registration, or if you have any questions regarding these fees, you may write to, or telephone the Environmental Fees Section at the address and telephone number shown on this letter.

Robert M. Frank

Rebul M Feat

Supervisor, Environmental Fees Section

State Board of Equalization

DT:ba

STATE BOARD OF EQUALIZATION P.O. BOX 942879 SACRAMENTO, CA 94279-0001



Coca Cola Ent.-West/ US Technical Attn: Peter Beaver 1414 W. Broadway Rd., Ste. 150 Tempe, AZ 85282

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October 29, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 18975 PACIFIC GATEWAY DRIVE, CARSON, CALIFORNIA. JOB NO. 89007.

Dear Raul:

This letter is in response to your request for a written report regarding the "redetermination" process at the Coca-Cola facility at 18975 Pacific Gateway Drive in Carson, California.

In a letter to U.S. Technical Environmental Consulting, Inc. (USTEC) from the California State Board of Equalization dated September 4, 1990, it was stated that the Department of Health Services is not currently recognizing the self-certification processes and as a result, the review fee of \$7,500.00 was due. The letter also stated that additional reasons or re-affirmation of our desire for a hearing was required.

USTEC re-affirmed our desire for a hearing based on two premises. One, that the self-certification process was in effect at the time the investigation was completed and the report submitted. According to Mr. Manny Alanzo of DHS, the self-certification was re-evaluated in March of 1990. USTEC feels it is inappropriate to apply the fee in this manner. Second, the site is currently under investigation as part of a U.S Environmental Protection Agency consent order issued to the Montrose Chemical Company. Recent results of this investigation (conducted by Hargis and Associates) indicates a substantial amount of volatile organic contamination on the groundwater beneath the Coca-Cola property. It seems redundant and inappropriate to apply the redetermination fee to a site already known to have an environmental problem attributable to another responsible party.

As is always the case with regulation agencies, there is no guarantee that they will recognize the logic here. In that case, Coca-Cola will be responsible for payment of the \$7,500.00 fee and for conducting a Preliminary Endangerment Assessment. Such an assessment will almost certainly involve Coca-Cola in further assessment and potential cleanup even though Coca-Cola is not a contributor.

I have attached a copy of the DHS requirements for the PEA. As you can see, the requirements are substantial.

Coca-Cola Enterprises - West Job No. 89007

At this point, the last option appears to be for the hearing. As of this date, no date has been received from the Board. As additional data becomes available to USTEC, we will forward it to you.

As always, it is a pleasure to be of service to Coca-Cola Enterprises, Inc. Should you have any questions, please call me at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Steven M. Myers, R.G. President

/weh

Attachment

Copies to:

Ed Todd, CCE - Atlanta, w/attachment Steve McConnell, CCE - West, w/attachment



U.S. Technical Environmental Consulting, Inc.

October 29, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

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Steven M. Myers, R.G.

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/weh

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Steve McConnell, CCE - West, w/attachment

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	5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, IN 7. Transporter 2 Company Name								
	9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION 1008 CERVERA	B. Transpor C. Facility's	rter's Phone Phone	213) 927-1	367				
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ORIGINAL — RETURN TO GENERATOR 387

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EP		Manifest Document No. 0 · 0 · 05	2. Page of 1		N	05				
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES 19875 PACIFIC GATEWAY DRI 4. Generator's Phone (213) 323-499	VE, CARSON, CA	A 90247									
	5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, I	6. NC. [.1	US EPA ID 1 E . X . E . M . P . T									
	7. Transporter 2 Company Name	8.	US EPA ID 1									
	9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATI	10. ON	US EPA ID 1	Number	A. Transporter's Phone (213) 927-1367 B. Transporter's Phone							
	1008 CERVERA WILMINGTON, CA 90744		A.D.9.8.1.4	. 5 . 8 . 4 . 6 . 6	C. Facil	ity's Phone	9	459				
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EP. .E.X.E.M.P.		Manifest 0.00.00.000	2. Page of		7	146					
	 Generator's Name and Mailing Address COCA COLA ENTERPRISES WES' 19875 PACIFIC GATEWAY DRI' Generator's Phone (213) 323-499 	VE, CARSON, C	A 90247					· · · · · · · · · · · · · · · · · · ·					
y.	 Transporter 1 Company Name A. WOODS INDUSTRIES, I. 	NC. [.	US EPA ID										
	7. Transporter 2 Company Name	8. .	US EPA ID	Number									
	9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION 1008 CERVERA	10. ON	US EPA ID		B. Tran	sporter's Pl sporter's Pl lity's Phone	none	213) 927-	367				
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U	S EPA ID No.	Manifest Document No. 0 · 0 · 0 · 1	2. Page of	1	4	91				
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES 19875 PACIFIC GATEWAY DRI 4. Generator's Phone (213) 323-499	VE, CARSON,	, CA 90247			-						
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4.000	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U . E . X . E . M	S EPA ID No. . P . T	Manifest Document No.	2. Pag of		24	$\frac{1}{2}$					
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES 19875 PACIFIC GATEWAY DRI 4. Generator's Phone (* 213) 323-499	r VE, CARSON,				<u> </u>		·					
	5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, I	NC.	, E , X , E , M , P	D Number .T									
01-9 EV	7. Transporter 2 Company Name		1	D Number									
	Designated Facility Name and Site Address BRENT PETROLEUM CORPORATI	ON	10. US EPA I	D Number	A. Transporter's Phone (213) 927–1367 B. Transporter's Phone								
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	WILMINGTON, CA 90744		C. A. D. 9. 8. 1	4.5.8.4.6.6		213) 8		13.					
	11. Waste Shipping Name and Description					No.	Туре	Total Quantity	Unit Wt/Vol				
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	D. Additional Descriptions for Materials Listed Ab SOIL CONTAMINATED WITH TR.		S OF WASTE O	IL	E. Handling Codes for Wastes Listed Above ACCEPTANCE # TM 238-S								
	15. Special Handling Instructions and Additional				L								
	SCALE TICKET #37864	,	•	GLOVES &	& GOGGLES								
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	NET 43120												
	16. GENERATOR'S CERTIFICATION: I hereby decl packed, marked, and labeled, and are in all respect												
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ğ	18. Transporter 2 Acknowledgement of Receipt of	Materials	6:						<u> </u>				
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's EXEM	US EPA ID No.	Manifest	2. Pac 0.3 of	·. 1 A9	7)3						
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WEST 19875 PACIFIC GATEWAY DRIV 4. Generator's Phone (213) 323-499	/E, CARSON	, CA 90247											
	5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, IN	IC.		A ID Number P.T										
	7. Transporter 2 Company Name		1	A ID Number										
	Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION	N	10. US EP	'A ID Number		A. Transporter's Phone (213) 927–1367 B. Transporter's Phone								
	1008 CERVERA WILMINGTON, CA 90744		[C.A.D.9.8	.1 .4 .5 .8 .4 .6		cility's Phone (213) 8		459						
	11. Waste Shipping Name and Description					12. Cont		13. Total Quantity	Unit Wt/Vol					
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	SOIL CONTAMINATED WITH TRA	ACE AMOUNT	S OF WASTE	OIL	AC	CEPTAN	CE #	TM 238-S						
	15. Special Handling Instructions and Additional								 -					
63.	SCALE TICKET #'37847 GROSS 68920	•		GLOVES		_								
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	16. GENERATOR'S CERTIFICATION: I hereby dec packed, marked, and labeled, and are in all respec													
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Ý	Printed Typed Name	<u></u>	Signature	oli-	Cá	te	ــــــ	Month Day	Year S19 0					
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U	JS EPA ID No.	Manifest Document No. 1.9	2. Page of		2	719					
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES' 19875 PACIFIC GATEWAY DRI' 4. Generator's Phone (213) 323-499	VE, CARSON	, CA 90247					· · · · · · · · · · · · · · · · · · ·					
	5. Transporter 1 Company Name	NO.	•	D Number									
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	Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION	n Ni	10. US EPA I	D Number	A. Transporter's Phone (213) 927–1367 B. Transporter's Phone								
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3	WILMINGTON, CA 90744		C. A.D.9.8.1	.4 .5 .8 .4 .6 .6	L The state of the								
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	15. Special Handling Instructions and Additional				I			, 					
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	NET 44,780	lare that the contents	s of this consignment are	fully and accurately desc	ribed abo	ove by prope	er shippi	ng name and	are cla	ssified,			
	packed, marked, and labeled, and are in all respec	ts in proper condition	for transport by highway	according to applicable i	nternation	al and natio	nai gove	rnmental reg	ulations.				
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No.	Manifest Document No. 0 · 0 · 0 · 2 · 1	2. Page of		42				
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES' 19875 PACIFIC GATEWAY DRI' 4. Generator's Phone (213) 323-499	r VE. CARSON.		10.0.0.2.1		<u> </u>					
	5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, II 7. Transporter 2 Company Name	-	D. US EPA ID • E · X · E · M · P · • US EPA ID	<u>T · · · · · · </u>							
	9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION 1008 CERVERA	•	0. US EPA ID	Number	B. Tran	nsporter's Pl sporter's Pl lity's Phone	hone	213) 927-1	367		
	WILMINGTON, CA 90744	1	C. A. D. 9 · 8 · 1 ·	4 · 5 · 8 · 4 · 6 · 6	l .	213) 8	<u>30-9</u>				
	11. Waste Shipping Name and Description			·		12. Cont No.	Type	13. Total Quantity	Unit W1/Vol		
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	15. Special Handling Instruction and Additional SCALE TICKET # 80380 GROSS 31 480 TARE 4890 0	nformation		GLOVES & (GOGGLES CY RESPONSE GUIDE #31						
	NET., 16. GENERATOR'S CERTIFICATION: I hereby decl packed, marked, and labeled, and are in all respect	are that the contents o	of this consignment are for or transport by highway a	ully and accurately desc	cribed abo	ove by prope al and natio	er shippi	ng name and are cla irnmental regulations.	assified,		
	If I am a large quantity generator, I certify that economically practicable and that I have selected threat to human health and the environment; OR waste management method that is available to me c	the practicable method	od of treatment storage	or disposal currently	available	to me which	h minim	izes the present and	future		
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20PC	18. Transporter 2 Acknowledgement of Receipt of	Materials	BRU	an Soll	<u> </u>			06/28	190		
TRANSPORTER	Printed/Typed Name		Signature					Month Day	Year		
	19. Discrepancy Indication Space								<u> </u>		
. .	20. Facility Owner or Operator: Certification of re	ceipt of waste mater	rials covered by this m	anifest except as not	ed in Iten	n 19.					
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID N	Docum	nifest nent No.	2. Pag	e 1	-47	108						
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES' 19875 PACIFIC GATEWAY DRI' 4. Generator's Phone (213) 323-499 5. Transporter 1 Company Name	r VE, CARSON, CA 90 1	······································	v u 8										
	W. A. WOODS INDUSTRIES, II 7. Transporter 2 Company Name	NC. E·X	US EPA ID Number	· ·			 -	-						
	9. Designated facility Name and Site Address BRENT PETROLEUM CORPORATION CORPORATION CERVERA	,	US EPA ID Number		B. Trai	isporter's Pl lity's Phone	enan		213) 927-1367					
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	D. Additional Descriptions for Materials Listed Ab SOIL CONTAMINATED WITH TR.		ASTE OIL		E. Handling Codes for Wastes Listed Above ACCEPTANCE # TM 238-S									
	15. Special Handling Instructions and Additional SCALE TICKET # 37887		GLOV	ES & 0	L COGGI	ES.			•					
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ORIGINAL — **RETURN TO GENERATOR**

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator's I	US EPA ID No.	Manifest Document Na.	2. Page of	1 .	1	\mathcal{M}					
	3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WES' 19875 PACIFIC GATEWAY DRI' 4. Generator's Phone (213) 323-499 5. Transporter 1 Company Name	T VE. CARSON	, CA 90247	D Number									
	, , ,	W. A. WOODS INDUSTRIES, INC. Transporter 2 Company Name 8. US EPA ID Number						·					
	Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION	—————— Эм		D Number				213) 927-1	367				
	1008 CERVERA WILMINGTON, CA 90744 C. A. D. 9. 8. 1. 4. 5. 8. 4. 6. 6					B. Transporter's Phone C. Facility's Phone (213) 830~9459							
	11. Waste Shipping Name and Description					12. Cont		13. Total Quantity	Unit Wt/Vol				
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	HAZARDOUS IE MANIFEST	1. Generator's US E E X E M P	PA ID No. T····	Manifest Document No. 0 .0 . 0. 9	2. Page 1 of 1	1)/				
3. Generator's Nar	me and Mailing Address ENTERPRISES WES					_+	1				
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5. Transporter 1 C	ompany Name	6.	US EPA IE								
W. A. WOO 7. Transporter 2 C	DS INDUSTRIES, I	INC.	EXEMP								
	ility Name and Site Address 'ROLEUM CORPORAT	10 LON	. US EPA II) Number	A. Transpo B. Transpoi		213) 927-	-1367			
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	N, CA 90744	<u> </u> C	A.D.9.8.1	4 .5 .8 .4 .6 .6	(213) 830-9459						
11. Waste Shippin	g Name and Description					. Containers No. Type	- 13. Total Quantity	Un Wt/			
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16. GENERATOR'S	CERTIFICATION: t hereby de and tabeled, and are in all respe	eclare that the contents of sets in proper condition for	this consignment are transport by highway	ully and accurately desc according to applicable in	ribed above b	y proper shipp of national gov	ing name and are ernmental regulati	classifie			
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18. Transporter 2 A	cknowledgement of Receipt of	of Materials		Mayo,	NI		062	77			
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	WASTE MANIFEST	EXEM	P.T	. O Document No. C	of	,	W	10	
	3. Generator's Name and Mailing Address	1							
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rit	4. Generator's Phone (213) 323-4991	. Onkoon	, 011 30247						
	5. Transporter 1 Company Name		6. US EP	A ID Number		•			
	W. A. WOODS INDUSTRIES, IN	ic.	.E .X .E M .	P.T	<u> </u>				
	7. Transporter 2 Company Name		1	A ID Number					
	9. Designated Facility Name and Site Address			A ID Number	A Iro	nsnorter's P	hone (213) 927-	1367
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	WILMINGTON, CA 90744		C. A.D.9.8.	1 . 4 . 5 . 8 . 4 . 6 . 6	(213) 8		459	
<u></u>	11. Waste Shipping Name and Description					12. Cont	1	13. Total	Unit
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	 GENERATOR'S CERTIFICATION: 1 hereby declipacked, marked, and labeled, and are in all respect 	are that the contents in proper condition	s of this consignment of for transport by highw	are fully and accurately desc ray according to applicable in	ribed abo	ove by properation	r shippi nal gove	ng name and are irnmental regulatio	classified, ns.
	If I am a large quantity generator, I certify that	I have a program	in place to reduce th	e volume and toxicity of w	aste gen	erated to th	e degre	e i have determin	ed to be
	economically practicable and that I have selected threat to human health and the environment; OR, waste management method that is available to me a	if I am a small qu nd that I can afford	antity generator, the	ave made a good taith el	to mir	io me which nimize my wi	n minim	neration and select	the best
Ţ	17. Transporter 1 Acknowledgement of Receipt of			4 1					
A	Printed/Typed Name	· · ·	Signature	Mach		^ ^		Month Do	Year
SP	* MARK Five			Mark	_t	y		062	770
Ŗ	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature			<u> </u>		Month Da	
TRANSPORTER			. Signature					Month Da	y Year
	19. Discrepancy Indication Space								
e F									
FACIL									
Ļ	20. Facility Owner or Operator: Certification of re-	eipt of waste mat	erials covered by th	is manifest except as note	d in Iten	n 19.			
T Y	Biss detde	.	1.						
	Printed/Typed Name		Signature	Vin C	de	ر د م		Month Do	XIP"
		·····	1-00		44				7 V
	A Committee of the Comm	ORIGINAL	. — RETURN TO	D GENERATOR		11. 12. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15			20,499

No. WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. 37883 SEOU HO 10451 31480lles lan HE LIGHT TIME 10:51 AM DATE 6/28/90 45260/11 Mit By TOI WEIGHED BY ASBURY TRANSPORTATION CO COMMODITY GROSS TARE CARRIER TRACTOR LIC. TRAILER LIC. WEIGHED AT 1150 No. Alameda Wilmington, CA 90744

ASBURY TRANSPORTATION CO.

WEIGHED FOR

DELIVERED TO

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

CUSTOMER COPY

, No. 37864

June
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		,	WEIGHMASTER
WEIGHED B	Y ASBURY TR	ANSPORTATI	ON CO.
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TARE	16. Ou	Day	6/21/10
CARRIER	Jo Car	DEFOYY /)//// h/
TRACTOR LIC.	TRAILER LIC.	TRAILER LIC.	WEIGHED AT
186771	6/11/15);	90-	1150 No. Alameda Wilmington, CA 90744
WEIGHED FOR	Carry	in Ca)
DELIVERED TO	Muni	Value	lu.
•	-		

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 + (213) 775-2904

CUSTOMER COP 0 0 7 0 0 0 3 9 9

WEIGHMASTER CERTIFICATE

WEIGHMASTER CERTIFICATE

WEIGHMASTER CERTIFICATE

Weighmaster, whose signature is on this certificate

vho is a recognized authority of accuracy, as prescribed by Chapter is

commencing with Section 12700) of Division 5 of the California Business and

rolessions Code, administered by the Division of Measurement Standards of the

California Department of Food and Agriculture. No. SEOU HO 10384 MEIGHT 68920 LB TIME 7:56 AM DATE 6/28/90 SEQU NO 10403 METGHT 31480 LE TIME 8:35 AM DATE 6/28/90 VEIGHED BY ASBURY TRANSPORTATION CO. OMMODITY ROSS ARE ARRIER TRACTOR LIC. WEIGHED AT 1150 No. Alameda Wilmington, CA 90744 VEIGHED FOR ELIVERED TO

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET **WILMINGTON, CA 90744** (213) 834-2881 • (213) 775-2904

CUSTOMER COPY

measured, or counted by a weighmeaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

No. 37908

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WEIGHED BY ASBURY TRANS	PORTATION	WEIGHMASTER	and the second con-
COMMODITY //	a, at	ict	
GROSS BY DEP TARE BY CARRIER	Jan. J) []. 6]. H. W.	28/90 28/90 Torce
TRACTOR LIC. TRAILER LIC. TE	AAILER LIC.	WEIGH	IED AT

ASBURY TRANSPORTATION CO.

WEIGHED FOR

DELIVERED TO

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904 0 0 7 0 0 0 4 0 0

1150 No. Alameda Wilmington, CA 90744

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. No. 37887 37898 SEQU HO 10481 SEQU NO 10454 METCHT 80380 L8 MEIGHT TIME 12:26 PM TIME 11:02 AM 6/28/90 DATE DATE 6/28/90 31480lbw 890alt Wet DRIVER WEIGHMASTER WEIGHED BY ASBURY TRANSPORTATION CO. WEIGHED BY ASBURY TRANSPORTATION CO. COMMODITY COMMODITY GROSS GROSS TARE CARRIER CARRIER TRACTOR LIC. WEIGHED AT TRAILER LIC. WEIGHED AT 1150 No. Alameda 1150 No. Alameda Wilmington, CA 90744 Wilmington, CA 90744 WEIGHED FOR WEIGHED FOR 16/06 DELIVERED TO DELIVERED TO ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET

WILMINGTON, CA 90744

(213) 834-2881 • (213) 775-2904

CUSTOMER COPY

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904 0 0 7 0 0 0 4 0 1

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighted, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.	measured, or counted by a weighmaster, whose signature is on this certificate.
SEOU HO 10427 WEIGHT 84840 LB GRANDINE 9:32 AN BATE 6/28/90 329606 The	SEQU NO 10382 WEIGHT 79880 LB TIME 7.51 AM DATE 6/28/90
51860 (t 1/4	SEQU NO 10404 HEIGHT 32980 LB TIME 8:37 AM DATE 6/28/90
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ASBURY TRANSPORTATION CO.	ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET

WILMINGTON, CA 90744

(213) 834-2881 • (213) 775-2904

CUSTOMER COPY

CUSTOMER COPY 007 000402

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET

WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

No. WEIGHMASTER CERTIFICATE *

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as preactibed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture. 37901 SEQU HO 10489 NEIGHT 74640 LB TIME 12:49 PM 6/28/90 DATE 32980.16 Tam DRIVER WEIGHED BY ASBURY TRANSPORTATION CO. COMMODITY GROSS TARE CARRIER TRACTOR LIC. TRAILER LIC. WEIGHED AT 1150 No. Alameda Wilmington, CA 90744 WEIGHED FOR DELIVERED TO

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

CUSTOMER COPY

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

No. 37914

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		.,	WEIGHMASTER
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CARRIER 4) H 4	277	DATE
3	1=211==		
TRACTOR LIC.	DISS.	TRAILER LIC.	WEIGHED AT 1150 No. Alameda Wilmington, CA 90744
WEIGHED FOR	Vario	n Ca	, , , , , , , , , , , , , , , , , , ,
DELIVERED TO	1 ren	Tiel	rolin

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

CUSTOMER COPY 007 000403

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy; as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.	No. 37846	WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the Californie Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.	No. 37866
SEQU HO 10383 WEIGHT 80560 LB TIME 7:53 AM DATE 6/28/90		SEOU NO 10429 WEIGHT 82320 LB TIME 9:37 AM DATE 6/28/90	
SFOO NO 10405 WEIGHT 33140 LB TIME 8:38 AM DATE 6/28/90	1 ,	33140 lb 49180 llo	· Net
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CHARGE CASH FEE		CHARGE CAGH	#.
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WEIGHED BY ASBURY TRANSPORTATION CO.		WEIGHED BY ASBURY TRANSPORTATION CO,	
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CARRIER (1) +/ (1) DEPOTY	DATE	CARRIER WHI WOOD	DATE
TRACTOR LIC. TRAILER LIC. TRAILER LIC.	WEIGHED AT 60 No. Alameda Ington, CA 90744	TRACTOR LIC. TRAILER LIC. TRAILER LIC.	WEIGHED AT 50 No. Alameda nington, CA 90744
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DELIVERED TO DANI / STEPLING		DELIVERED TO NEAT SETTING	

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET

WILMINGTON, CA 90744

(213) 834-2881 • (213) 775-2904

CUSTOMER COPY

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

CUSTOMER COPY 007 000404

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, meetinged by Country but a weighbedge whose signature is on this certificate.	No.
WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighnester, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Char 7 (commencing with Section 12700) of Division 5 of the California Busine Professions Code, administered by the Division of Measurement Standards California Department of Food and Agriculture.	37900
California Department of Food and Agriculture.	
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CARRIER () + (P)	DATE
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	50 No. Ålameda Ington, CA 90744
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ASBURY TRANSPORTATIO	N co
1635 EAST DENNI STREET	14 001
WILMINGTON, CA 90744	

(213) 834-2881 4 (213) 775-2904

CUSTOMER COPY

37888 10455 33140lh live 44500lh Mit SERU NO MEIGHT TIME 11:04 AM 6/28/90 DATE DRIVER WEIGHMASTER WEIGHED BY ASBURY TRANSPORTATION CO. COMMODITY GROSS TARE CARRIER WEIGHED AT TRAILER LIC. RAILER LIC. 1150 No. Alameda Wilmington, CA 9074 WEIGHED FOR DELIVERED TO

No.

ASBURY TRANSPORTATION CO.

1635 EAST DENNI STREET WILMINGTON, CA 90744 (213) 834-2881 • (213) 775-2904

CUSTOMER COPY

			·								
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E . K . F . M . P		Manifest Document No. 0 · 0 · 0 · 0 ·	2. Pa	ge 1 ,	11	r 1			
H	3. Generator's Name and Mailing Address	1 .m.w.m.m.r		10.0.0.0.	* 	<u> </u>					
	COCA COLA ENTERPRISES WES 19875 PACIFIC GATEWAY DRI 4. Generator's Phone (213) 323-499	VE. CARSON.	CA 90247								
	5. Transporter 1.Company Name	6.	US EPA I	Number						***	
	w. A. WOODS INDUSTRIES, I			T							
	7. Transporter 2 Company Name	8. 		Number							
	9. Designated Facility Name and Site Address	10) Number	A. Tro	insporter's	Phone (213) 92	7-13	67	
	BRENT PETROLEUM CORPORATI	on				nsporter's l					
	1008 CERVERA			_	1	cility's Phon					
	WILMINGTON, CA 90744	<u> </u>	C. A. D. 9. 8. 1	· 4 · 5 · 8 · 4 · 6 ·	6	(213)					
	11. Waste Shipping Name and Description					12. Con	Type	13. Total Quantity	,	Unit Vt/Vol	
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_	CALIFORNIA REGULATED WAST	e only				0.0.1	D T	0.0.0.2	2 2	T	
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	D. Additional Descriptions for Materials Listed Ab	OVE.] E U.	ndling Cod	es for W	astes Listed A	·		
	D. Additional Descriptions for Materials Listed Ad	V-16			-	naing Cod	es for W	usies Lisied A	POAG		
	SOIL CONTAMINATED WITH TR	ACE AMOUNTS	OF WASTE OF	[L	A	CEPTA	nce #	TM 238	- S		
	15. Special Handling Instructions and Additional	Information					 -				
	SCALE TICKET # 76740	j		GLOVES &	GOGG	ES					
	GROSS 31480				Y RESPONSE GUIDE #31						
	TARE 45260			JEGVALINA	r wegi	CHOL (30 エカビ	431			
	NET										
	16. GENERATOR'S CERTIFICATION: I hereby dec packed, marked, and labeled, and are in all respec	are that the contents of is in proper condition for	this consignment are transport by highway	fully and accurately d according to applicabl	escribed al	ove by prop nal and nati	per shippii onal gove	ng name and o	are class ations.	sified,	
	If I am a large quantity generator, I certify that economically practicable and that I have selected threat to human health and the environment; OR waste management method that is available to me	the practicable method ; if I am a small quant	d of treatment, storag tity generator, I have	e, or disposal current	ily availabl	e to me wh	ich minimi	izes the preser	at and	future	
Ţ	17. Transporter 1 Acknowledgement of Receipt of		(Company		79						
KAN	Printed/Typed Name		Signature	. 0	Da			Month	Day	Year	
SP	1311an Sollais	At manufacture		ian Sc	llai	<u>-</u>		106	2.8	9:0	
カーコン しゅうしゅん	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	materials	Signature	, 14				.g⁴ Month	Day	Уear.	
Ř	West House 11	4772	1/2	11/1/2		<u> </u>	فريد برم	<u>" 1 </u>	1	10	
	19. Discrepancy Indication Space			- 1		_	.*				
	17. Discrepancy indication space										
F	17. Discrepancy indication space										
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FACILIT	20. Facility Owner or Operator: Certification of re	ceipt of waste materi	als covered by this m	nanifest except as n	oted in Ite	m 19.					
FACILITY		ceipt of waste materi	als covered by this m	nanifest except as n				Month	Day	Yeor	
11	20. Facility Owner or Operator: Certification of re		·	nanifest except as n		m 19.		Month	Day 2	Yeog	

007 000406

NON-HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. E. X. E. M. P. T. 3. Generator's Name and Mailing Address COCA COLA ENTERPRISES WEST 19675 PACIFIC GATEWAY DRIVE, CARSON, CA 90247 4. Generator's Phone (213) 323-4991 5. Transporter I Company Name W. A. WOODS INDUSTRIES, INC. 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION 1008 CERVERA WILMINGTON, CA 90744 11. Waste Shipping Name and Description CALIFORNIA REGULATED WASTE ONLY D. Additional Descriptions for Materials Listed Above SOIL. CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL 15. Special Handling Instructions and Additional Information	13. Total Quantity	Unit Wt/Vol
COCA COLA ENTERPRISES WEST 19875 PACLFIC GATENAY DRIVE, CARSON, CA 90247 4. Generator's Phone (213) 323-4991 5. Transporter 1 Company Name W. A. WOODS INDUSTRIES, INC. 7. Transporter 2 Company Name 8. US EPA ID Number BRENT PETROLEUM CORPORATION 1008 CERVERA WILMINGTON, CA 90744 CAD. 9.8.1.4.5.8.4.6.6 11. Waste Shipping Name and Description CALLFORNIA REGULATED WASTE ONLY CALLFORNIA REGULATED WASTE ONLY D. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL ACCEPTANCE # TM	13. Total Quantity	Unit Wt/Vol
W. A. WOODS INDUSTRIES, INC. 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address BRENT PETROLEUM CORPORATION 1008 CERVERA WILMINGTON, CA 90744 11. Waste Shipping Name and Description 12. Containers No. Type 13. CALIFORNIA REGULATED WASTE ONLY 14. C. C. CALIFORNIA REGULATED WASTE ONLY 15. D. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL 16. ACCEPTANCE # TM	13. Total Quantity	Unit Wt/Vol
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1008 CERVERA WILMINGTON, CA 90744 C A D. 9. 8. 1. 4. 5. 8. 4. 6. 6 C. Faccility's Phone (213) 830–9459 12. Containers No. Type C CALIFORNIA REGULATED WASTE ONLY D. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL C A D. 9. 8. 1. 4. 5. 8. 4. 6. 6 C. Faccility's Phone (213) 830–9459 12. Containers No. Type O O D T O O E. Handling Codes for Wastes I	13. Total Quantity	T
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d. D. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL ACCEPTANCE # TM		
D. Additional Descriptions for Materials Listed Above SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL ACCEPTANCE # TM		
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SOIL CONTAMINATED WITH TRACE AMOUNTS OF WASTE OIL ACCEPTANCE # TM		4
	Listed Above	•
15. Special Mondiling Instructions and Additional Information	238-S	
		<u>. </u>
SCALE TICKET # 37864 GLOVES & GOGGLES		
GROSS 74606 EMERGENCY RESPONSE GUIDE #3	1	
TARE 3/480		
NET 43/20 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this consignment are fully and accurately described above by proper shipping name of the contents of this contents of this contents of this contents of this contents of the contents of the contents of this contents of the contents of this contents of this contents of the contents of this contents of the	me and are r	Institud
packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the threat to human health and the environment; OR, if I am a small quantity generator, have made a good faith effort to plinimize my waste generation waste management method that is available to me and that I can afford.	tal regulation ive determine	s. ed to be
T 17. Transporter 1 Acknowledgement of Receipt of Materials	14 // -	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature	Month Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature	Month Day	V
Printed/Typed Name Signature	Month Day	Year
19. Discrepancy Indication Space A C C C C C C C C C C C C C C C C C C		
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.		
		Year
	Month Day	

	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	. O . O . O . 3	2. Page of 1	1 7		13		
	3. Generator's Name and Mailing Address		-			V			
	COCA COLA ENTERPRISES WEST								
	19875 PACIFIC GATEWAY DRIV								
	4. Generator's Phone (213) 323-4991				•				
	5. Transporter 1 Company Name		Number		•				
	W. A. WOODS INDUSTRIES, IN	IC. E.X.B.M.P	T						
	7. Transporter 2 Company Name	8. US EPA II	Number						
			<i>.</i>	1					
	9. Designated Facility Name and Site Address	10. US EPA II) Number	A. Trans	porter's f	hone (213) 9	27-1	367
	BRENT PETROLEUM CORPORATIO	N	x	B. Trans	porter's F	hone			
	1008 CERVERA			C. Facili	ty's Phon				
	WILMINGTON, CA 90744	C. A.D.9.8.1	.4 .5 .8 .4 .6 .6	(2	13) 8	30-9	459		
	11. Waste Shipping Name and Description				12. Con	tainers	13.		
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	d.								
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	D. Additional Descriptions for Materials Listed Ab	ove		E. Hand	lling Cod	es for W	astes Listed	Above)
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	SOIL CONTAMINATED WITH TR	ACE AMOUNTS OF WASTE OF	I L	ACC	RPTAN	ice #	TM 23	8 - S	
	15. Special Handling Instructions and Additional	nformation							
	SCALE TICKET # 37847	7	GLOVES &	GOGGLE	S				
	GROSS 68920		EMERGENCY	RESPO	NSE G	UIDE	#31		
	TARE 3/480								
	NET 37440								
	16. GENERATOR'S CERTIFICATION: I hereby deci	are that the contents of this consignment are	fully and accurately des	cribed abov	e by pron	er shinn	na name ao	d are d	assitied
	packed, marked, and labeled, and are in all respect								
	If I am a large quantity generator, I certify that								
	economically practicable and that I have selected threat to human health and the environment; OR	the practicable method of treatment, storage, if I am a small quantity generator, I bave	or disposal currently hade a good f <u>a</u> ith e	available ort to mini	ro me whi mize my v	cn minin vaste ge	izes the pre neration and	sent and	a tuture the best
ļ	waste management method that is available to me a	ind that I can afford. ×	on Trol			_			
F	17. Transporter 1 Acknowledgement of Receipt of								
Ž.	Printed/Typed Name	Signature	7 0	116			Montl میسا	b Day	Year
S	18. Transporter 2 Acknowledgement of Receipt of	Materials 15/2	an Sol	Mar.	<u> </u>		C.E	ع کا	170
トロはといるのはトルロ	Printed/Typed Name							h Day	V : =
É	rimed/Typed Name	Signature					Mont/	l .	Year .
-	19. Discrepancy Indication Space								
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40-1>	20. Facility Owner or Operator: Certification of re	reint of waste materials covered by this	anifest except as and	ad in Ita-	10				
Ĭ	Committee of Operation Certification of re	top. or waste materials covered by this i	.c.mesi except us non	ea ar nem	. , ,				
Ý	Printed/Typed Name	Signotuee			4		Month	h Day	Year
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Ļ	William Cute							N	37 0
	All in	TRANSPORTER #	2					SK	19 0

	NON-HAZARDOUS WASTE MANIFEST	1. Generator's U	S EPA 1D No. P . T	Manifest Document No.4	2. Pag of	1	<i>j</i> () re	
	3. Generator's Name and Mailing Address								
	COCA COLA ENTERPRISES WEST								
	19875 PACIFIC GATEWAY DRIV		CA 90247						
	4. Generator's Phone (213) 323-4991								
	5. Transporter 1 Company Name			ID Number					
	W. A. WOODS INDUSTRIES, IN		<u> </u>	· T	↓				
	7. Transporter 2 Company Name		8. US EPA	ID Number					
				<u> </u>	ļ				
	9. Designated Facility Name and Site Address		10. US EPA	ID Number			<u>_</u>	213) 927-	1367
	BRENT PETROLEUM CORPORATIO)N				nsporter's P			
	1008 CERVERA					ility's Phone		450	
	WILMINGTON, CA 90744		C & D. 9. 8.	L. 4. 5. 8. 4. 6. 6	<u> </u>	(213) 8			
	11. Waste Shipping Name and Description					No.	Type	13. Total Quantity	Unit Wt/Vol
	a.		<u> </u>			110.	1,750	Quality	14417 401
									
	CALIFORNIA REGULATED WASTE	ONLY				0.0.2	D.T	0-0-0-2-	2 T
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	d.								
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	D. Additional Descriptions for Materials Listed Abo	ove			E. Ha	ndling Code	s for W	astes Listed Abo	ve
	SOIL CONTAMINATED WITH TRA	ACE AMOUNTS	OF WASTE	DIL	AC	CEPTAN	CE F	TM 238-S	
	15. Special Handling Instructions and Additional In	formation							
	SCALE TICKET # 3784	16	•	GLOVES &	GOGGI	.ES			
	GROSS 80,560						****	40.5	
				energency	KESI	PONSE G	WIDE	#31	
	TARE 33,140								
	NET 47,420	- -	<u> </u>						
	 GENERATOR'S CERTIFICATION: 1 hereby declar packed, marked, and labeled, and are in all respects 	ire that the contents in proper condition f	of this consignment are for transport by highwa	e fully and accurately des y according to applicable	cribed ab internatio	ove by propo nai and natio	er shippi nal gove	ng name and are rnmental regulatio	classified, ns.
	If I am a large quantity generator, I certify that I	. ,	, , ,	,			-	-	
	economically practicable and that I have selected threat to human health and the environment; OR ,	the practicable meth	nod of treatment, storg	ige, or disposal currently	avoilable	e to me whic	h minim:	izes the present a	nd future
Ц	waste management method that is available to me ar	nd that I can afford.		11. Du					
K	17. Transporter 1 Acknowledgement of Receipt of A	Materials		/					
TRAZSPORTER	Printed/Typed Name	-	Signature	Jan M		٠,		Month Da	y Year
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Ř		Materials	le:	7				06	
	Printed/Typed Name		Signature	•				Month Do	y Year
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R	19. Discrepancy Indication Space								
R	19. Discrepancy Indication Space								
	19. Discrepancy Indication Space								
	19. Discrepancy Indication Space								
		eipt of waste mate	erials covered by this	manifest except as not	ed in Ite	m 19.			
	Discrepancy Indication Space 20. Facility Owner or Operator: Certification of rec	eipt of waste mate	rials covered by this	manifest except as not	ed in Ite	n 19.			
R FACILITY		eipt of waste mate	erials covered by this	manifest except as not	ed in Iter	m 19.		Month Da	y Year
	20. Facility Owner or Operator: Certification of rec	eipt of waste mate	· · · · · · · · · · · · · · · · · · ·	manifest except as not	ed in Iter	n 19.		Month Do	N 7

TRANSPORTER #2

	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. .E.X.B.M.P.T.	Manifest Document No. 0 · 0 · 05	2. Pag	je 1 1	少	05	
1	3. Generator's Name and Mailing Address							
	COCA COLA ENTERPRISES WEST	r						
	19875 PACIFIC GATEWAY DRIV	VE, CARSON, CA 90247						
ļ.	5. Transporter 1 Company Name	6. US EPA ID	Number					
	W. A. WOODS INDUSTRIES. II	NC. E X E M P	<u>r</u>	1_				
	7. Transporter 2 Company Name	8. US EPA ID	Number		_			
-		<u> </u>		 			210) 207	1067
	9. Designated Facility Name and Site Address	10. US EPA ID	Number		nsporter's nsporter's i		213) 927-	-136/
	BRENT PETROLEUM CORPORATIO	UN		1	ility's Phon			
	1008 CERVERA WILMINGTON, CA 90744	C. A. D. 9. 8. 1.	4.5.8.4.6.6	1	(213)		459	
-	11. Waste Shipping Name and Description	10112701	, , , , , , , , , , , , , , , , , , , 		12. Con		13.	
Ĺ				<u> </u>	No.	Туре	Total Quantity	Unit Wt/Vol
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ŀ	CALIFORNIA REGULATED WAST	E GNLY			10.0.~	4D·T	0.0.0.2	2 T
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	d.	•						
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}	D. Additional Descriptions for Materials Listed Ab	ove		E. Ha	ndling Cod	es for W	astes Listed Abo	ove
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Ì	SOIL CONTAMINATED WITH TR	ACE AMOUNTS OF WASTE OI	L	A	CEPTA	NCE #	TM 238-	S
	15. Special Handling Instructions and Additional I			1				
	SCALE TICKET # 3786 GROSS 82,320	66	GLOVES &	GOGGI	RS			
	more 87 320							
	77/90		EMERGENCY	RES	CHZE	JU L DE	. ¥31	
-	16. GENERATOR'S CERTIFICATION: I hereby decl	are that the contents of this consignment are fu	lly and accurately desc	ribed ab	ove by pror	er shippi	ng name and are	classified
	packed, marked, and labeled, and are in all respect	s in proper condition for transport by highway as	ccording to applicable i	nternatio	nal and nati	onal gove	ernmental regulati	ons.
	If I am a large quantity generator, I certify that economically practicable and that I have selected	the practicable method of treatment, storage	, or disposal currently	availabl	e to me wh	ich minim	izes the present	and future
	threat to human health and the environment; OR , waste management method that is available to me a	, it I am a small quantity generator/1/have m	nody a good faith	ort to mi	nimize my v	vaste ger	neration and sele	ct the best
Ţ	17. Transporter 1 Acknowledgement of Receipt of	Materials	1 7/					
TRANSPORTER	Printed/Typed Name	Signature	/ -	1	\sim		Month D	ay Year
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Ŗ	 Transporter 2 Acknowledgement of Receipt of Printed/Typed Name 		<u> </u>	· -			44L N	lav V
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_+	19. Discrepancy Indication Space			•				
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-	20. Facility Owner or Operator: Certification of re-	ceipt of waste materials covered by this mo	inifest except as note	ed in Ite	m 19.			
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	Printed/Typed Name	Signature	Λ		_		Month D	ay Year
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ĉ	20. Facility Owner or Operator: Certification of re	· · · · · · · · · · · · · · · · · · ·	anifest except as note	ed in Ite	m 19.		Mon	

	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E	PA ID No.	Manifest Document No. 0 · 0 · 0 · 0 · 6	2. Pag of	je l	-	Dla.	- 	
	3. Generator's Name and Mailing Address			<u> </u>		<u></u>		· · ·		
	COCA COLA ENTERPRISES WES		CA 90247			•				
	4. Generator's Phone (213) 323-499	<u> </u>		_	ļ				_	
	5. Transporter 1 Company Name	6. I	US EPA ID N					٠		
	W. A. WOODS INDUSTRIES, I		· E · X · E · M · P · T							
	7. Transporter 2 Сотралу Name	8. 1	US EPA ID N		i					
	9. Designated Facility Name and Site Address	10.			A Tro	accordar's B	hana (213) 927	1-12	267
	,		. 03 [FA ID N	omber		nsporter's P		213) 941	-13	307
	BRENT PETROLEUM CORPORATI	UN				ility's Phone			_	
	1008 CERVERA WILMINGTON, CA 90744	10	3 A D 9 8 1 4	. 5. R. 4. 6. 6	i .	(213) 8		459		
	11. Waste Shipping Name and Description		- 1. 2 / U - 	<u> </u>		12. Cont		13.	T	
						No.	Туре	Total Quantity		Unit Vt/Vol
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	d.				_					
						<u> </u>	<u>l : </u>	<u> </u>	<u>. </u>	
	D. Additional Descriptions for Materials Listed Ab	ove			E. Hai	ndling Code	s for W	astes Listed Ab	ove	
	SOIL CONTAMINATED WITH TE	ACE AMOUNTS	OF WASTE OIL	•	A	CCEPTAL	ice #	TM 238-	-s 	
	15. Special Handling Instructions and Additional	Information								
	SCALE TICKET # 3/	888		GLOVES &	GOGGI	LES				
	GROSS 77690			EMERGENCY	RES	PONSE (GULDI	#31		
	CROSS 77640									
	NRT 4/4 500									
	16. GENERATOR'S CERTIFICATION: I hereby decl packed, marked, and labeled, and are in all respect	are that the contents of is in proper condition for	this consignment are fully transport by highway acco	and accurately descording to applicable i	ribed ab	ove by prop	er shippi	ng name and ar	e class	sified,
	If I am a large quantity generator, I certify that economically practicable and that I have selected threat to human health and the environment; OR waste management method that is available to me or	I have a program in p the practicable method , if I am a small quanti	place to reduce the value of treatment, storage, ity generators have ma	me and toxicity of woor_disposal currently	aste gen available	nerated to the to me which	e degre	e I have determizes the present	nined t	future
Ţ	17. Transporter 1 Acknowledgement of Receipt of	Materials	7-7-7	w 1/						
Ä	Printed/Typed Name	-	Signature	. 1				Month	Day	Year
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Ŗ	18. Transporfer 2 Acknowledgement of Receipt of	Materials								
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۳	19. Discrepancy Indication Space									
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FAC-L-F	20. Facility Owner or Operator: Certification of re	ceipt of waste materia	als covered by this man	ifest except as note	ed in Iter	m 19				
	20. Facility Owner or Operator: Certification of re	ceipt of waste materia	Signature	ifest except as note	ed in Iter	m 19		Month (Day	Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. EXEN.P.T.	Manifest Document No 0 · 0 · 0 · 0		1	Ω	
3. Generator's Name and Mailing Address					12- T	
COCA COLA ENTERPRISES WES	T					
19875 PACIFIC GATEWAY DRI			ļ			
4. Generator's Phone (213) 323-499	•					
5. Transporter 1 Company Name		PA ID Number				
• • • • • • • • • • • • • • • • • • • •	1		i			
W. A. WOODS INDUSTRIES, I		· P ·T························PA ID Number				
7. Transporter 2 Company Name	6. USE	FA ID Number				
						
9. Designated Facility Name and Site Address		PA ID Number			(213) 927-	1367
BRENT PETROLEUM CORPORATI	On		<u> </u>	orter's Phone		
1008 CERVERA			C. Facility	's Phone		
WILMINGTON, CA 90744	C A D 9 8	· 1 · 4 · 5 · 8 · 4 · 6 ·	6 (21	3) 830-9	<u> 459</u>	
11. Waste Shipping Name and Description			1:	2. Containers	13. Total	Unit
	·			No. Type	Quantity	Wt/Vol
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CALIFORNIA REGULATED WAST	E ONLY		n	· a · 2 b · T	0.0.0.2.	7 7
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D. Additional Descriptions for Materials Listed Ab				 	Vastes Listed Abov	
SOIL CONTAMINATED WITH TR	ACE AMOUNTS OF WASTE	OIL	ACCE	PTANCE :	TM 238-S	
15. Special Handling Instructions and Additional	Information					
SCALE TICKET # 37865		GLOVES &	GOGGLES	.		
GROSS 84370		PMEDCENC	Y RESPON	ICT CHID	7 #31	
TARE 72990		BALBORNO	I AMOION	104 G01D1	. 731	
NET 5.380						
 GENERATOR'S CERTIFICATION: I hereby dec packed, marked, and labeled, and are in all respec 						
If I am a large quantity generator, I certify that economically practicable and that I have selected threat to human health and the environment; OR waste management method that is available to me	the practicable method of treatment, s , if I am a small quantity generator,	torage, or disposal curren	tly available to	me which minin	nizes the present a	nd future
T 17. Transporter 1 Acknowledgement of Receipt of	Materials	1 201				•
17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Signature	On i	$\overline{}$		Month Da	y Year
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18. Transporter 2 Acknowledgement of Receipt of	Materials	11 cm		71	112	- 1 / -
Printed/Typed Name			<u>_</u>		Mc-15 0-	V
Timed/Typed Hume	Signature	<u> </u>			Month Da	y Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of re	eceipt of waste materials covered by	his manifest except as r	oted in Item 19	₽.		
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A Thirties A The Annual	Signature {		· ·	-	Month Do	y Year
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- 1	NON-HAZARDOUS	1. Generator's US E	PA ID No.	Manifest Document No.	2. Page	e l		120	
	WASTE MANIFEST	-R-X-R-M-P	<u>.</u>	Document No.	of .	1		101	
Ţ	3. Generator's Name and Mailing Address				_			_ -	
	COCA COLA ENTERPRISES WES	· ·							
-	19875 PACIFIC GATEWAY DRI	VE, CARSON,	CA 90247						
	4. Generator's Phone (213) 323-499	1			-				
	5. Transporter 1 Company Name	6. I							
	W. A. WOODS INDUSTRIES, I		R.X.E.M.P.		 				
	7. Transporter 2 Company Name	8. I							
ļ	O Designation of the state of t				 -		<u></u>		<u></u>
-	9. Designated Facility Name and Site Address	10.). US EPA ID	, INUMBER				(213) 927-1	<u> 1367</u>
	BRENT PETROLEUM CORPORATION	ON				nsporter's Ph ility's Phone			
	1008 CERVERA	1	9. A 96. * .	~ .	· .	ility's Phone		150	
}	WILMINGTON, CA 90744		- A-D-9-8-1-	4 · 5 · 8 · 4 · 6 · 6		213) 8		13.	1
	11. Waste Shipping Name and Description				١	No.	Type	Total	Unit Wt/Vol
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	D. Additional Descriptions for Materials Listed Ab	pove		_	E. Han	ndling Code	es for W	astes Listed Above	е
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	SOLL CONTAMINATED WITH TR	ACE AMOUNTS	OF WASTE OI	L	AC	CEPTAN	ice #	TM 238-S	
	15. Special Handling Instructions and Additional	Information							
	SCALE TICEPE # 2750-			GLOVES &	COCCL	ES			
	SCALE TICKET #37287							80-	
	GRUSS			emergency	RESP	ONSE G	UIDE	¥31	
	TARE 32940								
-	NET 48520	lava sk> -1	Abic '	dha == !				<u> </u>	
[GENERATOR'S CERTIFICATION: I hereby decipacked, marked, and labeled, and are in all respect 	uure mat the contents of its in proper condition for	transport by highway a	uny and accurately described to applicable in	internation	ove by propural and nation	er shippi nal gove	ing name and are c Prnmental regulation.	.iassified, s.
	If I am a large quantity generator, I certify that	t I have a program in p	place to reduce the vo	olume and toxicity of w	waste gene	nerated to the	he degre	se I have determine	ed to be
	economically practicable and that I have selected threat to human health and the environment; OR	the practicable method R, if I am a small quanti	of treatment torage						
	waste management method that is available to me	and that I can afford. ×	J to far	1 22					
_	14 *	• Materials							
Ĭ,	17. Transporter 1 Acknowledgement of Receipt of		1	+	/			<u>.</u>	
TRAN	17. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name		Signature	12. 9 D	4	10		Month Day 17), 61-2,5	
TRANSPO	Printed/Typed Name		Signature 2	Maik.	Dre	<u> </u>		O. 6 2.2	Year Y 7.0
TRAZSPORT	Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of		1	Maik.		<u> </u>		0.6/2.2	8 7.0
TRANSPORTER	Printed/Typed Name		Signature Signature	Mail.	Dry.	<u> </u>		, ,	8 7.0
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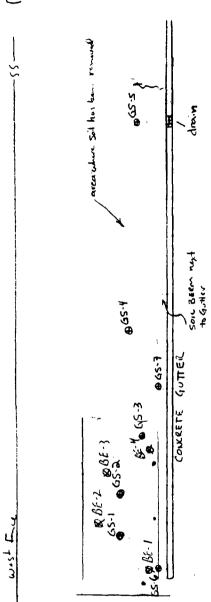
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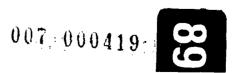
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(915) 327-3625

March 15, 1991

Coda Cola Enterprises - Fest 1934 South Central Avenue Bos Angeles, CA 95021 Attn: er. Raul Radires

Jentlemen:

Re: UC Hy 36 034839-010

Enclosed is a copy of the Decision and Recommendation pertaining to the petition for redetermination in the above-referenced matter.

I have recommended that the fee be rescinded as explained in the Decision and Recommendation.

Very truly yours,

Cynthia Spencer-Ayres Bearing Officer

CSA:ct

cc: Department of Health Services, Fees Unit Toxic Substances Control Program 714/744 P Street Sacramento, CA 94234-7320 Attention: Ms. Jo Nelson (w/enclosure)

Ms. Janice Masterton
Assistant to the Executive Director (W/enclosure)

Hr. E. V. Anderson, Administrator, Excise Tax (W/enclosure)

Mr. Glenn Systrom, Principal Tax Auditor (file attached)

Mr. Robert Frank
Excise Tax Division
Environmental Fees Unit (w/enclosure)

U.S. Technical Sovironmental Consulting, Inc. 1414 W. Broadway Road, Ste. 150 Tempe, AZ 85782 Attn: Mr. Peter A. Beaver (w/enclosure)

STATE OF CALIFORNIA

BOARD OF EQUALIZATION

APPEALS DIVISION

In the Matter of the Petition)

for Redetermination Under the)
Hazardous Substances Tax Law)
of:

COCA COLA ENTERPRISES - WEST)

Petitioner

HEARING
DECISION AND RECOMMENDATION
No. HC HQ 36 034839-010

The above-referenced matter was to be set for hearing before Hearing Officer Cynthia Spencer-Ayres. The Department of Health Services, Toxic Substances Control Program, notified the State Board of Equalization, Environmental Fees Unit, to rescind petitioner's Notice of Determination for a Preliminary Endangerment Assessment activity fee assessed under Health and Safety Code section 25347.6(d), determining that said fee in this case is not due, and acknowledged that it no longer disputed the petitioner's protested liability. As a result, a hearing was not held.

Protested Item

Petitioner protests the assessment of an activity fee determining whether hazardous substances exist at a particular site issued in the amount of \$7,500.00.

Summary, Analysis and Conclusions

The Department of Health Services, Toxic Substances Control Program, rescinded petitioner's Notice of Determination dated April 26, 1990 in the amount of \$7,500.00 in a memorandum dated February 19, 1991. The activity fee was determined not to be due and the Notice of Determination was thereby withdrawn.

The Hearing Officer reviewed the file and found no errors. Accordingly, it is recommended that the fee be rescinded.

Recommendation

Rescind activity fee in accordance with staff recommendation.

Cynthia Spencer-Ayres, Hearing Officer Date



STONEY-MILLER CONSULTANTS, INC.

GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

April 24, 1989

Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021 Project No: 10221-00 Report No: 9-0624

Attention:

Mr. Raul Ramirez, Manager

Facilities Department

Subject:

PRELIMINARY GEOTECHNICAL INVESTIGATION

The Carson Facility

19875 Pacific Gateway Drive

Torrance, California

References:

See Appendix A

Gentlemen:

In accordance with your request, we have completed our geotechnical investigation for the proposed dock high warehouse at the subject site. The attached report presents the results of our recently completed investigation, conclusions, and preliminary recommendations for site grading and development of the project.

The proposed construction is considered feasible from an engineering standpoint, provided the grading and foundation plans take into account the appropriate geotechnical engineering recommendations contained herein. It is essential that the foundation plans be reviewed by our office when completed.

1.0 INTRODUCTION

1.1 Purpose

a. This report presents the results of our preliminary geotechnical investigation for the proposed warehouse in the City of Torrance, California.

Project No: 10221-00 Report No: 9-0624

Page No: 2

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b. The purpose of our investigation was to provide geotechnical engineering and geologic design parameters and recommendations for development of the site. Conclusions and recommendations relating to site grading, foundations, slabs-ongrade, retaining structures and pavements are presented herein.

- c. For our investigation, we were provided with a site layout plan (Scale - 1 inch equals 40 feet), undated, prepared by Carlisle Associates, Inc., showing the proposed building and paving areas at the subject site.
- d. Grading, structural and architectural plans are not available at present.

1.2 Proposed Development

- a. At this time, we understand that a tilt-up office/warehouse structure, a vehicle maintenance building, a check-in facility, associated parking facilities, and landscape areas are planned for the site. We understand that the proposed office/warehouse building is planned with a dock high fill. Slab-on-grade floors are anticipated. Final finished floor grades are expected to be approximately three feet higher than the existing site grades.
- b. It is our understanding that the maximum wall loads will be on the order of 5 kips, and point loads for pad footings will be approximately 70 to 100 kips. At this time, these estimates do not take into account earthquake over-turning forces. If column loads exceed these values, our office should be notified so that we may review our recommendations.

1.3 Scope of Services

The scope of services provided during the course of this investigation included:

a. Review of previous geologic, soil engineering and seismological reports and maps pertinent to the subject site (see Appendix A, References).

April 24, 1989

Project No: 10221-00 Report No: 9-0624

Page No: 3

b. Subsurface exploration which included 5 hollowstem auger borings.

- c. Logging and sampling of the exploratory borings, including the collection of soil samples for laboratory testing.
- d. Laboratory testing of soil samples considered representative of subsurface conditions.
- e. Soil engineering and geologic analyses of field and laboratory data.
- f. Preparation of this report with the appropriate maps and other graphics presenting our findings, conclusions and recommendations with respect to the preliminary site plan.

1.4 Authorization

This investigation, as outlined in our Proposal No. 7232, dated October 10, 1988, was performed in accordance with an authorization by Mr. Raul Ramirez of the Coca-Cola Company.

2.0 EXECUTIVE SUMMARY

Our conclusions and recommendations are based on the information obtained during our review, field exploration, and laboratory testing. Our work was limited to the scope as originally requested and is specifically addressed to the proposed development as described herein. In summary, our findings and recommendations are as follows:

- a. The site is underlain by both fill and natural terrace deposits. Approximately three to five feet of compacted fill was encountered below the aggregate base and asphalt concrete within the existing pavement areas.
- b. Structures may be supported on spread or continuous footings provided that the footings are supported on compacted fill/reworked in-situ material.
- c. Slabs-on-grade may be used, provided that the slabs are supported on compacted fill/reworked in-situ material.
- d. Type V cement is required for concrete in contact with soil.

Project No: 10221-00 Report No: 9-0624

Page No: 4

e. Special corrosion protection will be necessary for underground utilities and piping.

- f. Recommendations for pavement sections for automobile parking, and truck loading and unloading areas, are provided.
- g. We recommend that all earthwork construction and foundation excavations be observed by our office.
- h. The geotechnical engineer should review final foundation plans.

3.0 SITE DESCRIPTION

3.1 Location

The site of the proposed construction is located at the northwest corner of Pacific Gateway Drive and Francisco Street in the City of Torrance, California. The general location of the project is as shown on the attached Location Map, Figure 1.

3.2 Surface Conditions

The project site is essentially level and covered by an existing one story commercial structure and adjacent asphalt and concrete paving.

3.3 Subsurface Conditions

3.3.1 Fill Soils

Approximately three to five feet of previously placed fill overlies the terrace deposits on site and is in turn capped by the existing structure and asphalt pavement. Fill soils consisted of compact clayey silt and silty clay. Fill soils were mottled tan and dark brown and moist. The fill appeared to be generally clean and free of debris and organic matter.

3.3.2 Terrace Deposits/Natural Ground

The natural soil profile encountered during our subsurface investigation generally consisted of clayey and sandy silt to the maximum depth explored of 31 feet below

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April 24, 1989

Project No: 10221-00 Report No: 9-0624

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existing grade. Intermittent and discontinuous layers of clayey and silty sand were encountered at various depths in our borings. The subgrade soils were generally stiff and massive and moist.

3.3.3 Groundwater and Caving

No groundwater was encountered in our exploratory borings, during our field investigation performed in September 1988. Caving of the boring sidewalls was not observed inasmuch as a hollow stem drilling auger was utilized for field exploration. The groundwater conditions reported above refer only to those observed at the times recorded. Generally, the groundwater level is affected by seasonal fluctuations and environmental changes. Therefore, variations from these observations may occur.

4.0 FIELD EXPLORATION PROGRAM

Details of the field exploration, including the Logs of Borings, are presented in Appendix B.

5.0 LABORATORY TESTING PROGRAM

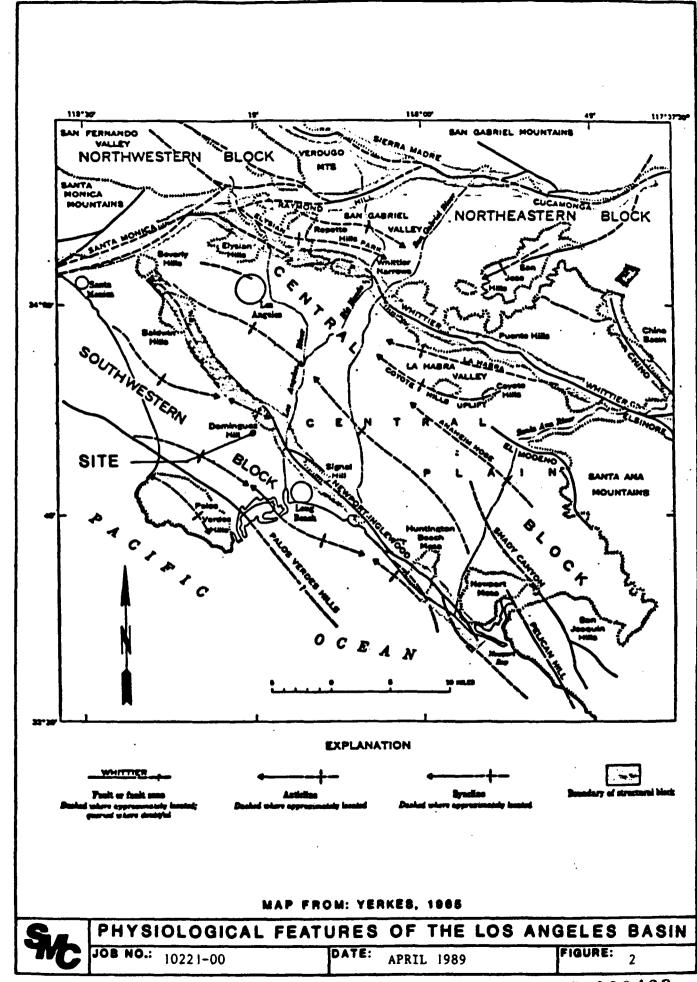
Tests were performed on bulk and relatively undisturbed samples considered representative of subsurface conditions.

Test procedures and results are given in Appendix C.

6.0 GEOLOGY

6.1 Regional Geologic Setting

The subject property, as well as the entire City of Torrance, is located near the southwestern boundary of the Los Angeles Basin, as shown in Figure 2, Physiological Features of the Los Angeles Basin. The Los Angeles Basin is a structural depression filled with a stratigraphic succession of about 14,000 feet of Pliocene, Miocene, and Lower Pleistocene marine clastic sediments, about 200 feet of Upper Pleistocene marine and continental deposits, and recent alluvial and coastal deposits.



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Four primary structural blocks divide the basin: the northwestern block; the northeastern block; the central block; and the southwestern block. The Newport-Inglewood Structural Zone separates the southwestern and central blocks, and passes diagonally through the City of Long Beach. The exposed part of the southwestern block is part of a much larger area, most of which is located beneath the Pacific Ocean. The exposed portion of the block is roughly rectangular in shape, about 28 miles long from northwest to southwest, and 5 to 12 miles wide. Most of it consists of a low plain which extends from Santa Monica, at the northwest, to Long Beach at the southeast, including the subject site. Major structural elements of the south-western block include: the northwest-trending, doubly plunging anticline that underlies the Palos Verdes Hills; the steeply southwest-dipping Palos Verdes Hills Fault Zone; and the buried northwest trending anticlinal arches of the Wilmington anticline northeast of the Palos Verdes Hills (Randell, et al, 1983).

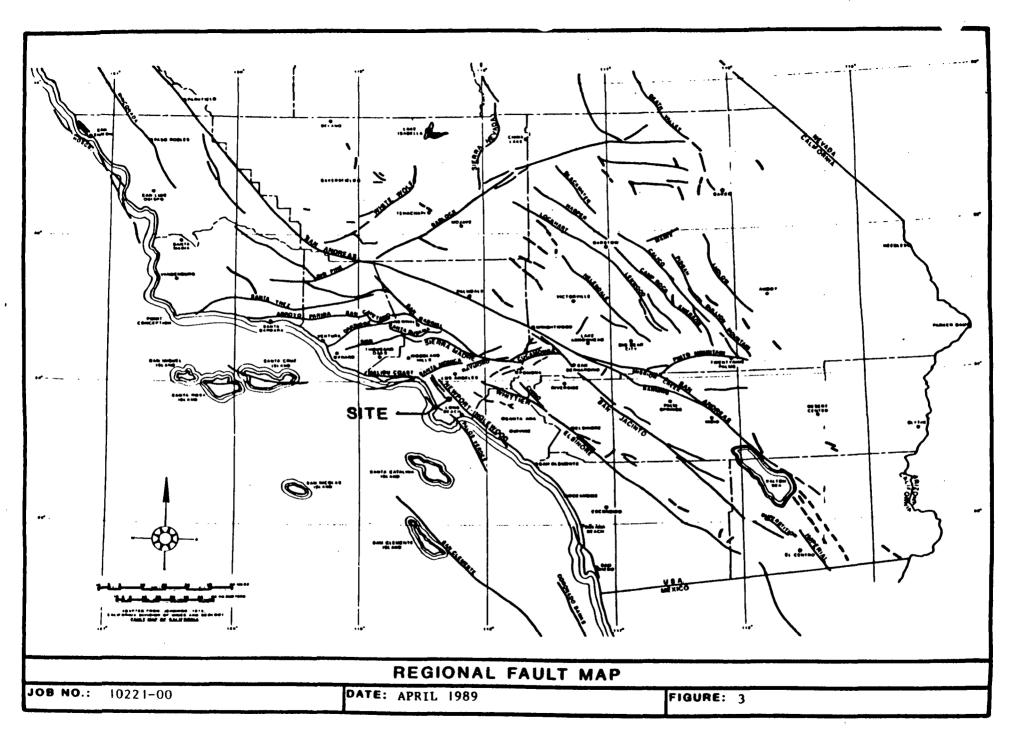
6.2 Geologic Unit

<u>Terrace Deposits</u> (Upper Pleistocene - Qpu)

At this location, the terrace deposits generally consist of medium dense to dense, slightly moist to moist, light greenish-brown to brown, massive, moderately well sorted, very fine- to medium-grained, slightly micaceous sandy silt and silty sand. Also, very stiff to hard, slightly moist to moist, greenish-brown, brown and dark gray-brown, massive, slightly micaceous silty clay, clayey silt and sandy clay were observed in our borings. Our borings, literature review, and previous experience in this region indicate that the terrace cover along this portion of Torrance ranges from 150 to 200 +/- feet thick. Underlying the terrace deposits to a depth of approximately 3,800 feet are the materials of the San Pedro and Pico Formations.

6.3 Faults

The general location of the site with respect to major regional faults is shown on Figure 3, Regional Fault Map. In close proximity to the site are the mapped



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traces of the active Newport-Inglewood Fault Zone and the potentially active Palos Verdes Fault.

Located approximately 7.2 kilometers (4.5 miles) east of the project area, the Cherry Hill Fault of the Newport-Inglewood Fault Zone pass through and divides the City of Signal Hill. The zone is marked at the surface by low eroded fault scarps along recently active northwest-trending staggered faults (including the Cherry Hill Fault), and by a chain of elongated low hills and mesas that extend to the southeast in the vicinity of Newport Bay.

The Palos Verdes Fault Zone is located approximately 11.2 kilometers (7.0 miles) southwest of the project area along the northern boundary of the Palos Verdes Hills, west of the City of Long Beach. The Palos Verdes Fault is a northwest-trending fault which, at the surface, generally follows the physiographic boundary between the Palos Verdes Hills and the lowerlying basin to the north, and extends offshore into the Santa Monica Bay west of the Palos Verdes Hills. A detailed seismicity section, including other causative faults within 100 kilometers (62.5 miles) of the property, is presented in Section 7.0.

6.4 Flooding

The subject property is located outside any 100-year flood zone as designated by the Federal Emergency Management Agency (1984). Based on a review of the Geological Survey Water-Supply Paper 1461, Plate 2 (Southern Half), for the Torrance-Santa Monica Area, California, the approximate shallowest depth of free water, or high water saturation level below the ground surface at the site, was indicated to be at or near sea level. The Los Angeles County Flood Control District reported shallow aquifer ground water level to be approximately 40 feet below sea level in November 1971.

7.0 SEISMICITY

7.1 General

The site is located in the seismically active southern California region. There are, however, no known active faults on or immediately adjacent to the site. The site is located outside of any fault hazard zones as designated by the Alquist-Priolo Special Studies Zones

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Act of 1972. As previously discussed, the site is located approximately 7.2 kilometers (4.5 miles) west of the Newport-Inglewood Fault Zone, the closest known active fault to the site.

The Newport-Inglewood structural zone of folds and faults forms a northwesterly trending line of topographic features which extend from Newport Mesa to beyond the Ballona Gap (Barrows, A. G., 1974). This fault zone has been the subject of numerous studies regarding the seismicity of the metropolitan Los Angeles area. Evidence to support this system's status as an active fault is well documented and includes late Quaternary to Holocene offset stratigraphy and aquicludes. Furthermore, historic seismic events associated with the Newport-Inglewood Zone include incidents with the following dates and magnitudes: October 14, 1941, magnitude 5.4; October 22, 1941, magnitude 4.9; June 19, 1944, magnitude 4.5; and the damaging March 11, 1933, Long Beach earthquake, magnitude 6.2 (Ziony, J. I. and Yerkes, R. F., 1985; and Hileman, J. A., et al, 1973).

Earthquake Effects 7.2

7.2.1 Surface Fault Rupture

As previously mentioned, no mapped faults are known to cross or lie within the limits of the property. Therefore, the hazard of surface fault rupture at the site is considered to be low.

7.2.2 Earthquake Accelerations

We have analyzed the possible earthquake accelerations at the site and determined that, for the intended use, the most significant event would be a 6.5 magnitude earthquake occurring on the Newport-Inglewood Fault Zone (Evendon, J. F. and Thomson, J. M., 1985; and Wesnousky, S. G., 1986). The accelerations produced at the site by a maximum probable magnitude 6.5 earthquake on this fault would equal or exceed in intensity and duration those events on any other known fault. Estimated seismic parameters for major, regionally active and

potentially active faults are summarized in Table I, Seismicity for Major Faults.

A magnitude 6.5 earthquake on the Newport-Inglewood Fault Zone could produce a peak ground acceleration on the order of 0.46g at the site (Seed, H. B. and Idriss, I. M., 1982) with the duration of strong motion exceeding 23 seconds (Bolt, B. A., 1973). Peak acceleration is not, however, always representative of the accelerations for which structures are actually designed (Ploessel, M. R., and Slosson, J. E., 1974). Repeatable high ground acceleration from a 6.5 magnitude earthquake on the Newport-Inglewood Fault Zone is estimated to be on the order of 0.30q. The design of structures should comply with the requirements of the Office of the State Architect and the standard practices of the Structural Engineers Association of California.

Historic earthquake epicenters (exceeding 6 on the Richter Scale of Magnitude), within a 100 kilometer radius of this project, are listed below:

Date	Richter <u>Magnitude</u>	Approximate Distance from Site to Epicenter (km)	Fault
12/08/1812	6.0*	62 SE	Offshore
02/09/1890	6.0*	87 NE	San Jacinto
04/04/1893	6.0*	62 NW	Santa Susana
07/06/1899	6.0*	72 NE	San Andreas
05/15/1910	6.0*	73 SE	Elsinore
07/22/1923	6.3*	92 E	San Jacinto
03/11/1933	6.2	43 SE	Newport-Inglewood
02/09/1971	6.5	60 N	San Fernando

^{*}Before instrumentation; presumed from geomorphic evidence and reported damage.

The areal relationships of historic earthquakes of magnitude 5.0 or greater in reference to the site are presented in Figure 4, Map of Historic Earthquake Epicenters.

SEISMICITY FOR MAJOR FAULTS

TABLE I

	Distance (km)		Maximum Probable Barthqua		Duration of	Modified	
Pault	and Direction ¹	Mag ³	Peak Accel(q) ⁵	Repeat Accel (g)6	Strong Ground Motion (sec.) ⁷	Mercalli Intensity ⁸	
Newport-Inglewood	7.2 E	6.5	0.46	0.30	23	VIII	
Palos Verdes	11.2 SW	6.4	0.37	0.24	21	VIII	
Whittier-Elsinore	30.4 E	6.7	0.19	0.12	17	VII	
Malibu Coast/Santa Monica/Raymond	27.2 N	6.6	0.22	0.14	17	VIII	
Sierra Madre, San Fernando	36.8 N	6.54	0.13	0.13	16	VII	
San Gabriel	44.8 N	6.7	0.13	0.13	16	, A11	
San Jacinto	104.0 E	7.5	0.05	0.05	17	VI	
San Andreas	136.0 E	8.0	0.04	0.04	14	¦ vī	
						ı	

- 1. Jennings, C. W., 1975
- 2. Barrows, A. G., 1974
- 3. Everndon, J. P. and Thomson, J. M., 1985
- Wesnousky, S. G., 1986
 Seed, H. B. and Idriss, I. M., 1982; and Seed, H. B. et al, 1975
- 6. Plossel, M. R. and Slosson, J. B., 1974
- Bolt, B. A., 1973
- 8. Seismic Design for Nuclear Power Plants, 1970

7.2.3 Liquefaction

Our site specific field investigation indicates that the subject property is underlain with layers of fine-grained terrace deposits comprised of sandy/clayey silt, silty sand, and silty clay. Laboratory tests and field performance data have shown that clayey soils will not liquefy during earthquakes (Seed, H. B., et al, 1983). It has also been observed that if the water content of any clayey soil (clay, sandy clay, silty clay, or clayey sand) is less than 90 percent of its liquid limit, the soil may be considered as nonliquefiable (Seed, H. B., et al, 1983). This condition is satisfied by the soils at the subject site. Thus, based on these observations, it is our opinion that the potential for liquefaction at the site is very low.

7.2.4 Shallow Ground Cracking

Cracking of the ground at the site, due to shaking from distant events, is not considered a significant hazard.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 General

- a. It is our opinion that the site will be suitable for the proposed development, from a geotechnical standpoint, assuming that our recommendations are implemented.
- b. We are of the opinion that the proposed structures can be supported on shallow spread footings founded in reworked material.
- c. We consider that the anticipated grading will not adversely affect, nor be adversely affected by, adjoining property, with due precautions being taken.
- d. The design recommendations in this report should be reviewed during the grading phase when soil conditions in the excavations become exposed.

e. It is assumed that final pad grades will not vary significantly from existing grades. Significant variations will require that these recommendations be reviewed.

f. The final grading plans, and foundation plans/design loads, should be reviewed by the geotechnical engineer.

8.2 Grading

8.2.1 Processing of On-Site Soils

- a. Although minimal amounts were encountered during our borehole program, localized fill soils and topsoil with organic matter (derived, for example, from planters, shrubbery, weathering of the surficial soils, etc.), are expected to be present within the construction site. Organic soils as well as demolition debris are considered unacceptable as structural fills and should be removed from construction areas.
- b. Within the area of the proposed building, and to a minimum of 5-feet beyond, overexcavation should extend to at least the depth of the existing building footings. We anticipate that the depth of these footings is on the order of 2-feet. Thus, we anticipate that overexcavation will extend to at least 2-feet below existing grade.
- c. The upper 6 to 8 inches of the subgrade soils should, after stripping or overexcavation, first be scarified and reworked.
- d. Any loosening of reworked or native material, consequent to the passage of construction traffic, weathering, etc., should be made good prior to further construction.
- e. Although none were encountered during this investigation, subsurface elements

of demolished structures should be removed completely, including any septic tanks, utility lines, foundation concrete, etc. Depressions and/or cavities created as a result of such removals should be backfilled with approved, compacted material.

- f. Existing pavement will be dismantled.

 Any reclaimed aggregate base may be incorporated in fills, after removal of deleterious matter.
- g. The depths of overexcavation should be reviewed by the geotechnical engineer during the actual construction. Any surface or subsurface obstructions, or questionable material encountered during grading, should be brought immediately to the attention of the geotechnical engineer for proper exposure, removal and processing as directed.

8.2.2 <u>Material Selection</u>

After the site has been stripped of any dismantled paving, debris, vegetation and organic soils, excavated on-site soils are considered satisfactory for reuse in the construction of on-site fills, provided the organic content does not exceed 3 percent by volume.

8.2.3 <u>Compaction Requirements</u>

- a. Reworking/compaction of the on-site soils shall include moisture-conditioning/drying as needed to bring the soils to approximately 2 percentage points above optimum moisture content.
- b. All reworked soils and structural fills should be densified to achieve at least 90 percent relative compaction with reference to the laboratory compaction standard.
- c. The optimum moisture content and maximum dry density should be determined in the

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laboratory in accordance with ASTM Test Designation D 1557.

d. Fill should be compacted in lifts not exceeding 8 inches (loose).

8.2.4 Excavating Conditions

- a. Excavation of on-site materials may be accomplished with standard earthmoving or trenching equipment. No hard rock was encountered which would require blasting within anticipated excavation depths.
- b. Existing paving, concrete foundations, utility lines and any appurtenances, such as septic tanks, will have to be demolished and removed.

8.2.5 Shrinkage

- a. For preliminary earthwork computations, an approximate shrinkage factor of 10 percent is recommended for the existing on-site soils. (This does not include handling losses.) These are preliminary recommendations which will vary depending upon the time of year, compaction equipment utilized and other factors specific to the grading operation. These values should be confirmed by appropriate testing of the cut at the start of grading operations.
- b. Subsidence should be negligible inasmuch as this site has been previously graded.

8.2.6 Expansion Potential

The expansion potential of the existing site soils was tested as medium in accordance with UBC Table 29-C. Any imported material, or doubtful material exposed during grading, should be evaluated for its expansive properties. Expansion tests should be performed during the concluding stages of rough grading.

8.2.7 <u>Sulfate Content</u>

Our experience with similar soils in this area indicates that Type V cement should be appropriate for concrete in contact with the subgrade soils. The sulfate content of the on-site soils should be confirmed during site preparation.

8.2.8 Utility Trenches

- a. The walls of temporary construction trenches should stand nearly vertical, with only minor sloughing, provided the total depth does not exceed about 4 feet. Shoring of excavation walls or flattening of slopes may be required, if greater depths are necessary.
- b. Trenches should be located so as not to impair the bearing capacity or settlement under foundations. As a guide, trenches subparallel to foundations should be clear of a 45-degree plane extending outward and downward from the edge of the foundations.
- c. Existing soils may be utilized for trench backfill, provided they are free of organic materials.
- d. All work associated with trench shoring must conform to the State of California Safety Code.

8.2.9 Surface Drainage

Positive surface gradients should be provided adjacent to the buildings to direct surface water run-off away from structural foundations and to suitable discharge facilities.

8.2.10 Import Soils

Any soils imported to the site for use as fill or subgrade materials should be predominantly granular, have an expansion

index less than 20, and be approved by the geotechnical engineer prior to importing. The geotechnical engineer should be notified of import locations a minimum of two (2) working days prior to proposed use.

8.3 Foundation and Slab Recommendations

8.3.1 General

Our investigation indicates that the existing surface soils exhibit a medium expansion potential. The following recommendations are based on our evaluation of both previous geotechnical data and that obtained during this site investigation, and engineering analyses.

Our recommendations are considered generally consistent with the current standards of practice. The potential for favorable foundation performance can be further enhanced by maintaining uniform moisture conditions during and after construction.

The footing configurations and reinforcement recommendations herein should not be considered to preclude more restrictive criteria by the governing agencies or by structural considerations. A structural engineer should evaluate configurations and reinforcement requirements for structural loadings, shrinkage and temperature stresses.

8.3.2 Foundations

Spread footings and/or continuous footings founded on compacted fill may be used to provide support for the proposed structure. Foundations should be founded a minimum of 24-inches below the lowest adjacent finish subgrade and have a minimum width of 12-inches. Reinforcement, (for continuous footings), consisting of at least one No. 5 bar, top and bottom, should be used to resist forces due to potentially expansive soils. Isolated spread footings should be reinforced as recommended by the structural engineer.

8.3.3 Allowable Bearing Pressure for Footings

Footings may be designed for an allowable dead-plus-live load bearing pressure of 2,000 pounds per square foot, which may be increased one-third for short-term wind or seismic loads. Where footings are located adjacent to retaining walls or utility trenches, the footing should extend below a one-to-one plane projected upward from the base of the retaining wall and from the utility trench.

8.3.4 Expected Settlement

For footings supported on compacted fill and sized for the recommended bearing pressure, total and differential settlements are not expected to exceed one-inch and one-half inch, respectively.

8.3.5 <u>Footing Observations</u>

All footing excavations should be observed and approved by the geotechnical engineer prior to placing reinforcing steel and concrete.

8.3.6 **Slabs**

Concrete floor slabs should be supported on a properly compacted subgrade prepared as recommended under "Site Grading" and designed for the anticipated floor loads. Concrete slabs should be a minimum 5-1/2 inches thick, reinforced as recommended by the structural engineer. Where moisture sensitive floor coverings are planned, the slab should be underlain by a minimum 6-mil polyethylene vapor barrier with a minimum of 2-inches of sand placed between the slab and the moisture membrane. For elastic design, a subgrade modulus of 200 psi/in may be used for slab design. The finish floor level should be at least 6-inches above the highest adjacent finish subgrade.

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8.3.7 Pre-Moistening of the Slab Subgrade

The subgrade should be pre-moistened prior to placing concrete.

8.3.8 <u>Lateral Load Resistance</u>

Lateral loads against buildings may be resisted by friction between the bottom of footings and the supporting soils. An allowable friction coefficient of 0.35 is recommended. Alternatively, an allowable lateral bearing pressure equal to an equivalent fluid weight of 300 pounds per cubic foot acting against the footings may be used, provided the footings are poured tight against undisturbed soils. It is recommended that the passive pressure does not exceed a maximum of 2,000 pounds per square foot.

9.0 RETAINING WALLS

Retaining walls should be designed in accordance with the following recommendations:

Equivalent Active Fluid Pressure (pcf) (Unrestrained walls)

Equivalent At-rest Fluid Pressure (pcf) (Restrained Walls)

On-Site Soils Level Backfill--45

Level Backfill--65

Walls subject to surcharge loads should be designed for an additional uniform lateral pressure equal to one-half the anticipated surcharge pressure in the case of restrained walls or one-third the surcharge pressure for unrestrained walls. The wall backfill should be adequately drained to relieve possible hydrostatic pressures on the wall. Footings should be designed in accordance with the previous foundation recommendations.

10.0 SEISMICITY

- a. Buildings should be designed to resist seismic lateral loading in accordance with Uniform Building Code Section 2312 for Seismic Zone 4, or assuming that the maximum repeatable acceleration is 0.36g (Section 7.2.2b of this report), whichever is more stringent.
- b. The potential for liquefaction is considered remote.

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11.0 PAVEMENTS

a. Based on the tested R-Value and on the Traffic Indices (TI) indicated, the following pavement sections are recommended:

	Location/Pavement Utilization	TI	AC Surface Course (in)	Class 2 Aggregate Base Course (in)
i)	Auto Parking/Driveways	4	3	5
ii)	Circulation Driveways (and infrequent fire trucks)	4.5	3	7
iii)	Truck Loading/Circu- lation Driveways	SEE	BELOW	

We understand that Portland Cement Concrete Paving will be used for all truck areas including parking, loading and turning and access. We recommend that concrete paving be a minimum of 6.5-inches thick, and reinforced with 6x6 - 10/10 wire mesh placed at mid height. Concrete paving should be underlain with a minimum of 6-inches of California Department of Transportation, Class 2 aggregate base.

- b. It should be appreciated that the above-given pavement sections are based on minimum recommended thicknesses both of asphaltic concrete and of aggregate base course. The design will be refined during rough grading, depending on the as-placed soils.
- c. The R-Value should be obtained during the concluding stages of rough grading, and the paving sections be reviewed, in the event that as-graded subgrade soils are significantly different from those now tested.
- d. The subgrade should be compacted to achieve a relative compaction of at least 90 percent through the upper 12 inches.
- e. The Aggregate Base should be compacted to achieve a relative compaction of at least 95 percent.

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LIMITATIONS

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable soils engineers and geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The samples taken and used for testing, the observations made and the in-place field testing performed are believed representative of the entire project; however, soil and geologic conditions can vary significantly between tested or observed locations.

As in most projects, conditions revealed by excavation may be at variance with preliminary findings. If this occurs, the changed conditions must be evaluated by the project geotechnical engineer and geologist and designs adjusted as required or alternate designs recommended.

This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and we cannot be responsible for other than our own personnel on the site; therefore, the safety of others is the responsibility of the contractor. The contractor should notify the owner if he considers any of the recommended actions presented herein to be unsafe.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

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This opportunity to be of service is appreciated. If you have

any questions, please call.

Respectfully submitted,

STONEY-MILLER CONSULTANTS, INC.

Gary F. Stoney, C.E.G. 938

Principal

GFS: jz

Attachments: Location Map, Figure 1

Physiological Features of the Los Angeles

Basin, Figure 2

Regional Fault Map, Figure 3

Map of Historic Earthquake Epicenters, Figure 4

Geotechnical En

Seismicity for Major Faults, Table I

Appendix A, References

Appendix B, Field Exploration Program Appendix C, Laboratory Testing Program Appendix D, Standard Grading Guidelines

Geotechnical Map, Plate 1

Distribution: Addressee (2)

Cadiz and Cadiz (2)

Attention: Carlos Cadiz

Wheeler and Gray (1)

Attention: Tom Purkiss

APPENDIX A

<u>REPERENCES</u>

- 1. Barrows, A. G., 1974, A Review of the Geology and Earthquake History of the Newport-Inglewood Structural Zone, Southern California, California Division of Mines and Geology Special Report, 114.
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21. Ziony, J. I., and Yerkes, R. F., 1985, "Evaluating Earthquake and Surface-Faulting Potential," Evaluating Earthquake Hazards in the Los Angeles Region - An earth science perspective, Ziony, J. E., ed., U. S. Geological Survey Prof. Paper 1360, p. 43.

APPENDIX B

FIELD EXPLORATION PROGRAM

- Subsurface conditions were explored by drilling 5 hollow stem auger borings to depths of 11.5 to 31.5 feet below the existing grade. The approximate locations of the borings are shown on the attached Geotechnical Map, Plate 1. The Key to Logs and Logs of Borings are included as Figures B-1 through B-5.
- Drilling of the borings was observed by our Field Engineer who logged the soils and obtained bulk and relatively undisturbed samples for identification and laboratory testing.
- 3. Drill holes were located in the field by pacing from known landmarks. Their locations as shown are, therefore, within the accuracy of such measurement.
- 4. The following sampling and testing technique was used to evaluate the subsurface conditions:
 - a. The in-place relative density and/or consistency of the soils were assessed by means of Standard Penetration Tests (SPT). The corresponding N-Values are shown on the logs. Samples from the SPT spoon were retrieved for detailed soil classification and laboratory testing.
 - b. Relatively undisturbed soils samples were obtained by means of a drive sampler, the hammer weight and drop being as for the SPT. The corresponding blows/ft. of penetration are indicated on the logs.
- 5. The soils were classified based on field observations and laboratory tests. The classification is in accordance with the Unified Soil Classification System (Figure B-1).
- 6. Groundwater was not encountered in our borings.
- 7. All borings were backfilled at the completion of our field investigation.

DEFINITION OF TERMS						
PR	IMARY DIVI	SIONS	SYME	OLS	SECONDARY DIVISIONS	
4t	GRAVELS	CLEAN GRAVELS	٥	GW	Well graded gravels, gravel-sand mixtures, little or no fines.	
OILS TERIA 200	MORE THAN HALF OF	(LESS THAN 6% FINES)	•	GP	Poorly graded gravele or gravel-sand mixtures, little or no fines.	
Ø ₹ 0	COARSE FRACTION IS	GRAVEL		GM	Sifty gravels, gravel-sand-sift mixtures, non-plastic fines.	
및 O z 및	NO. 4 SIEVE	WITH FINES		GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.	
GRAIN M HALF IER THA BIEVE 8	SANDS	CLEAN SANDS		SW	Well graded sands, gravelly sands, little or no fines.	
SE TO SE	MORE THAN	(LESS THAN 5% FINES)	(LESS THAN 5% FINES)		8P	Poorly graded sands or gravelly sands, little or no fines.
DA RE 18	COARSE FRACTION IS	8AND8		SM	Silty sands, sand-silt mixtures, non-plastic fines.	
ပိမ္ဆ	SMALLER THAN NO. 4 SIEVE	WITH FINES		SC	Clayey sands, sand-clay mixtures, plastic fines.	
JILS OF LER SIZE	SILTS AN	D CLAVE		ML	inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.	
S LE	LIQUID (LIMIT IS		CL	inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays.	
INED AN HAI IS BM	LESSIF	IAN SUB		OL	Organic silts and organic silty clays of low plasticity.	
< ∃」 ∅	Ñ	D CLAYS		MH	Inorganic silts, micaceous or distomaceous fine sandy or silty soils, elastic silts.	
	LIQUID	LIMIT IS		СН	Inorganic clays of high plasticity, fat clays.	
NIT NA AHT				ОН	Organic clays of medium to high plasticity, organic sitts.	
нівн	ILY ORGANI	C SOILS		Pt	Peat and other highly organic soils.	

GRAIN SIZES

SILTS AND CLAYS		SAND			GRA	VEL	CORRIGO	BOULDERS
SILIS AND CLAIS	FINE	MEDIUM	COARSE	I^-	FINE	COARSE	COBBLES	BOOLDERS
2	00	40	10	4	3./	4* \$	1	2'
	U.S. 8	TANDARD SER	IE8 SIEVE		CLE	EAR SQUAR	E SIEVE OPE	NINGS

RELATIVE DENSITY

SANDS, GRAVELS AND NON-PLASTIC SILTS	BLOWS/FOOT*
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 60

CONSISTENCY

CLAYS AND PLASTIC SILTS	STRENGTH**	BLOWS/FOOT*
VERY SOFT	0 - 1/4	0 - 2
80FT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
8TIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

^{*}NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30-INCHES TO DRIVE A 2-INCH O.D. (1-3/8-INCH I.D.) SPLIT SPOON (ASTM D-1588).

^{**}UNCONFINED COMPRESSIVE STRENGTH IN TONS/SQ. FT. AS DETERMINED BY LABORATORY TESTING OR APPROXIMATED BY THE STANDARD PENETRATION TEST (ASTM D-1586), POCKET PENETROMETER, TORVANE, OR VISUAL OBSERVATION

SL	KEY TO LOGS	
JOB NO.: 10221-00	DATE: APRIL 1989	FIGURE:

8" HOLLOW STEM DATE OBSERVED: _ METHOD OF DRILLING: SEE PLOT PLAN LOCATION: _ GROUND ELEVATION: LOGGED BY: SAMPLE UNDISTURBED SAMPLE BLOW8/FOOT CLASSIFICATION 9 MOISTURE CONTENT (%) DEPTH (FEET) DEPTH (FEET) BORING NO. ____ LABORATORY GRAPHIC TEST BULK DESCRIPTION Z S 0 3" ASPHALT OVER 6" BASE **ATTERBERG** A.C 121 Artificial Fill - Af **EXPANSION** 8.2 CL **B/17** Mottled light brown, tan and dark brown SILTY CLAY. Very stiff, CL B/20/12 slightly moist, massive, desiccated, porous. 5 Terrace Deposits; Qpu 11/25 Greenish-brown to light brown, very fine-grained SILTY CLAY. Dense, slightly moist, massive, trace of porosity, wood fiber. 10 10 @9', Inclusions of light brown 6/11/11 to buff silt. 15 9/24 122 7.1 @18', Becoming slightly clayey. 20 20 B/13/21 25 25 @29', Becoming slightly micaceous GasTech 150ppm 30 15/28/31 TOTAL DEPTH 31.5' NO GROUNDWATER HOLE BACKFILLED & PATCHED 35 35 JOB NO .: 10221-00 FIGURE: B-2 LOG OF BORING

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DATE	OB	BERV	ED: _	9-3	0-88		METH	LOCATION: SEE PLOT PLAN	AUGE	.K	S	4
LOG	GED	BY:	IPF		GROU	ND E	LEVA	TION:				C
DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDISTURBED Sample	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. 2 DESCRIPTION	LAE	BORA1 TEST		DEPTH (FEET)
		A.C. CL	12/2	\times	X	6.6	127	4" ASPHALT OVER 6" BASE Artificial Fill - Af Dark brown to black SILTY CLAY.	Ove	Tech er Hol	- 1)B
5 1 1 1	,	L/CL	9/2			7.8	125	Hard, moist, massive, desiccation Terrace Deposits; Qpu Greenish-brown to brown clayey SILT. Hard, moist, massive, slightly micaceous, porous, slightly weathered.				5
10 -	-	ML	9/11/	13		_		@9', Decreasing clay content. Greenish-brown, very fine-grained slightly micaceous, SANDY SILT. Medium dense, slightly moist, massive, trace of oxidation.	,			10 – -
15 -			15/20	\times		6.3	125					15-
20-		SM	13/15	/20	_			Light gray-brown, fine- to medium-grained, SILTY SAND. Dense, slightly moist, massive, slightly micaceous, occasional silt pocket, indeterminable odor		Tech	30 p	20 —
25 — - - -												25-
30 -		2	0/33/4					@29', Color change to dark brown.	1	Tech	75 pj	30-
35 — 								TOTAL DEPTH 31.5' NO GROUNDWATER HOLE BACKFILLED AND PATCHED				35-
40-	NO.:		1022	1-0 0				LOG OF BORING		FIGUR	E: p	40-

8" HOLLOW STEM AUGER DATE OBSERVED: 9-30-88 METHOD OF DRILLING:_ SEE PLOT PLAN LOCATION: LOGGED BY: GROUND ELEVATION: 000 UNDISTURBED SAMPLE BAMPLE BLOW8/FOOT CLASSIFICATION DEPTH (FEET) BORING NO. 3 LABORATORY GRAPHIC IN PLACE DENSITY (TEST DESCRIPTION 3" ASPHALT OVER 4" BASE GasTech 100 pm .с. Artificial Fill - Af ML/al 6/16 Dark gray-black silty CLAY. Very stiff, moist, massive, petroleum, 18/1/11 hydrocarbon contamination and strong odor, oily residue. a. @3', Broke fiberglass pipe. 20/25 3.9 117 Terrace Deposits; Qpu Greenish-brown to light orangebrown, very fine-grained SANDY CLAY. Dense, slightly moist, 10 10 massive, slightly micaceous, 5/11/9 trace of contamination and odor. @12', Slightly clayey. 15 10/12/15 Samples wet from broken line. Greenish-gray silty CLAY. Very stiff, moist, massive. 20 20 8/12 6.8 121 TOTAL DEPTH 21' NO GROUNDWATER HOLE BACKFILLED AND PATCHED WATER IN HOLE FROM BROKEN PIPE AT 3' 25 25 30 30 35 40 JOB NO .: 10221-00 FIGURE: B-4 LOG OF BORING

ACCEPTED 70

METHOD OF DRILLING: 8" HOLLOW STEM AUGER DATE OBSERVED: 9-30-88 SEE PLOT PLAN LOCATION: **JPH** GROUND ELEVATION: LOGGED BY: UNDISTURBED SAMPLE BULK SAMPLE IN PLACE DRY DENSITY (PCF) GRAPHIC LOG BLOW8/FOOT CLASSIFICATION MOISTURE DEPTH (FEET) DEPTH (FEET) BORING NO. 4 LABORATORY TEST DESCRIPTION 3" ASPHALT OVER 4" BASE ATTERBERG A.C. 8/10/15 GasTech 65 pm Artificial Fill - Af-CL Dark brown to black SILTY CLAY **EXPANSION** with trace of fine sand. Very stiff, moist, massive, trace of 4/10/15 a. rootlets. Terrace Deposits; Qpu Light brown to buff, very finegrained sandy CLAY. Medium dense, slightly moist, massive, desiccated, slightly porous. 10 10 09', Becoming slightly micaceous 6/10/20 TOTAL DEPTH 11.5' NO GROUNDWATER HOLE BACKFILLED AND PATCHED 15 20 20 25 25 30 30 35 35 JOB NO .: FIGURE: B-5 10221-00 LOG OF BORING

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DATE OBSERVED: 9-30-88 METHOD OF DRILLING: 8" HOLLOW STEM AUGER LOCATION: SEE PLOT PLAN LOGGED BY: __ _ GROUND ELEVATION: _ BULK SAMPLE IN PLACE DRY Density (PCF) GRAPHIC LOG UNDISTURBED Sample BLOW8/FOOT CLABBIFICATION MOISTURE CONTENT (%) DEPTH (FEET) DEPTH (FEET) BORING NO. __5_ ABORATORY TEST DESCRIPTION . 0 . CL ARTIFICIAL FILL (LANDSCAPED BERM); Af Dark gray-brown silty CLAY with 123 9.7 7/15 trace of coarse sand. Very stift, moist, massive, rootlets. Terrace Deposits; Qpu Light brown, slightly SILTY CLAY 6/14/16 Œ Very stiff, moist, massive, slightly micaceous, trace of rootlets. @9', Decreasing clay content. 10 10 14/24 121 8.6 @14', Trace of very fine-grained sand. 15 15 12/20/28 20 20 25-25 9/14/18 TOTAL DEPTH 26.5' NO GROUNDWATER HOLE BACKFILLED 30 30 35 35 40 JOB NO .: FIGURE: B-6 10221-00 LOG OF BORING

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APPENDIX C

LABORATORY TESTING PROCEDURES

Laboratory testing was performed at the office of Schaefer Dixon Associates. Test results are summarized herein, and where appropriate, test results are attached.

1. Classification

Soils were classified visually according to the United Soil Classification System. Moisture content and dry density determinations were made for representative undisturbed samples. Results of moisture-density determinations, together with classifications, are shown in the Logs of Borings, Figures B-2 through B-6.

2. Expansion

Expansion index tests were performed on representative remolded samples of the on-site soils in accordance with the Uniform Building Code Standard No. 29-2. The test results are shown in Table 1.

3. Maximum Density/Optimum Moisture Content

The maximum dry density/optimum moisture content relationship was determined for a representative sample of the on-site soils. The laboratory standard used was ASTM: D 1557. The results are presented in Table 2.

4. Sulfate

A sulfate test was performed on a representative sample of the on-site soils. The laboratory standard used was California 417A. The test result is presented in Table 3.

5. R-Value

An R-Value test was performed on a representative sample of the on-site surface soils. The laboratory standard used was ASTM: D 2844. The test result is presented in Table 4.

6. Atterberg Limits

Atterberg Limits tests consisting of liquid limit in accordance with ASTM: D 423-66, and plastic limit in accordance with ASTM: D 424-59, were performed on representative samples of the on-site soils. The test results are presented below:

Test Location	USCS Classification	Liquid <u>Limit</u>	Plasticity <u>Index</u>
B-1 @0-2'	CL	35	20
B-2 @0-2'	CL	35	21
B-4 @0-2'	CL	45	26

7. Direct Shear

A direct shear strength test was performed by Schaefer Dixon Associates on a representative, relatively undisturbed sample of the on-site soils. To simulate possible adverse field conditions, the sample was saturated prior to shearing. A saturating device was used which permitted the samples to absorb moisture while preventing volume change. The test was performed using a shearing rate of 0.005 inches per minute. The actual test results as provided by Schaefer Dixon Associates are attached.

TABLE C-1

RESULTS OF EXPANSION TEST

(U.B.C. NO. 29-2)

TEST LOCATION	SOIL CLASSIFICATION	EXPANSIONINDEX	EXPANSION POTENTIAL
B-1 @ 0-2'	Silty Clay	78	Medium
B-2 @ 0-21	Silty Clay	56	Medium
B-4 @ 0-2'	Silty Clay	56	Medium

TABLE 2

RESULT OF OPTIMUM MOISTURE/MAXIMUM DENSITY DETERMINATIONS

(ASTM: D 1557)

TEST LOCATION	· SOIL <u>CLASSIFICATION</u>	OPTIMUM MOISTURE CONTENT \$	DRY DENSITY (LB./FT. ⁵)
B-1 @ 0-2'	Silty Clay	12.0	120.0

TABLE 3

SULFATE TEST RESULTS

CALIFORNIA 417A)

TEST LOCATION	SOIL CLASSIFICATION	SOLUBLE SULFATE (%)			
B-2 @0-2'	Silty Clay	0.0300			

TABLE 4

RESULT OF R-VALUE TEST

(ASTM: D 2844)

TEST LOCATION	SOIL CLASSIFICATION	R-VALUE
B-4 @0-2'	Silty Clay	15

Associates Schaefer Dixon

Schanler J. Dixon Fire Lunnes Police J Lynn Paul Davis James J. Weaver William J. Monahan E.J. Parrish

Burnard I I . Kyle D. Emire. Dean M. Wr. v. Richard B. Fallerin

80-072

March 30, 1989

Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attention:

Mr. Mike Miller

Subject:

Laboratory Testing for Various Projects

Gentlemen:

The laboratory tests requested by your firm have been completed. Attached at the end of this letter are copies of your laboratory schedule sheets and the laboratory test data.

The attached Table 1 summarizes the samples which were tested and the type of test performed on each sample. It should be noted that the samples were delivered to our laboratory facility and were tested in accordance with testing procedures which are currently accepted in the geotechnical engineering profession. No opinions nor judgements regarding these test results are expressed or implied.

If you should have any questions regarding the above matter, please do not hesitate to contact the undersigned. -

Respectfully submitted,

SCHAEFER DIXON ASSOCIATES, INC.

Simon L Lee P.E.

Senior Engineer

DMJ:atad/80-072.L1

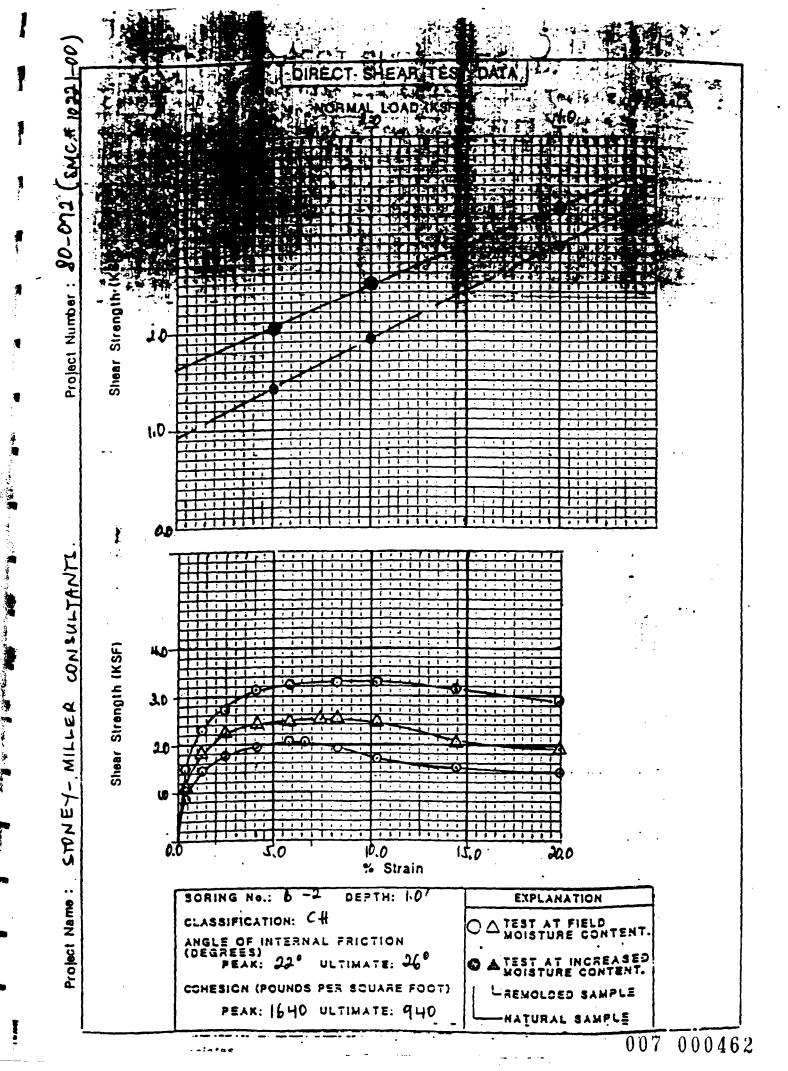
Table 1 - Summary of Laboratory Tests Laboratory Test Data

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160	200	6.63 7.45	2.00	.160 .180	24		6.63 7.45	2.48	180	325	7.45 12.11
180	191	8 28	1.91	.180	24		8.28	2.48	.180	326	828
200	167	10.35	167	.250	24		<u>مد.ه</u> کۍ .0	2.42	.200	326	10.35
250	1 158	12.42	1.58	.300	22		2 43	2.28	.250	321	12 42
300	1 153	14.49	1.53	.350	20		4.49	2.06	.300	316	149
<u>400</u>	1 144	16.56	1.44	.400	19		16.56	1.99	.350	198	16.56 1
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Associate
Schaefer Dixon



OR NAME: STONES	MILLER CONSULTANTS DATE: 01-24-89												
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APPENDIX D

STANDARD GRADING GUIDELINES

GENERAL

These Guidelines present the usual and minimum requirements for grading operations inspected by Stoney-Miller Consultants, Inc., (SMC) or its designated representative. No deviation from these guidelines will be allowed, except where specifically superseded in the soils report signed by a registered geotechnical engineer.

The placement, spreading, mixing, watering and compaction of the fills in strict accordance with these guidelines shall be the sole responsibility of the contractor. The construction, excavation, and placement of fill shall be under the direct observation of the soils engineer or any person or persons employed by the licensed geotechnical engineer signing the soil report. If unsatisfactory soil-related conditions exist, the soil engineer shall have the authority to reject the compacted fill ground and, if necessary, excavation equipment will be shut down to permit completion of compaction. Conformance with these specifications will be discussed in the final report issued by the soils engineer.

SITE PREPARATION

All brush, vegetation and other deleterious material such as rubbish shall be collected, piled and removed from the site prior to placing fill, leaving the site clear and free from objectionable material.

Soil, alluvium, or rock materials determined by the soils engineer as being unsuitable for placement in compacted fills shall be removed from the site. Any material incorporated as part of a compacted fill must be approved by the soils engineer.

The surface shall then be plowed or scarified to a minimum depth of 6 inches until the surface is free from uneven features that would tend to prevent uniform compaction by the equipment used. After the area to receive fill has been cleared and scarified, it shall be disced or bladed by the contractor until it is uniform and free from large clods, brought to the proper moisture content and compacted to minimum requirements. If the scarified zone is greater than twelve inches in depth, the excess shall be removed and placed in lifts restricted to six inches.

Any underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, pipe lines or others not located prior to grading are to be removed or treated in a manner prescribed by the soils engineer.

MATERIALS

Materials for compacted fill shall consist of materials approved by the soils engineer. These materials may be excavated from the cut area or imported from other approved sources, and soils from one or more sources may be blended. Fill soils shall be free from organic vegetable matter and other unsuitable substances. Normally, the material shall contain no rocks or hard lumps greater than 6 inches in size and shall contain at least 50 percent of material smaller than 1/4 inch in size. Materials greater than 4 inches in size shall be placed so that they are completely surrounded by compacted fines; no nesting of rocks shall be permitted. No material of a perishable, spongy, or otherwise of an unsuitable nature shall be used in the fill soils.

Representative samples of materials to be utilized as compacted fill shall be analyzed in the laboratory by the geotechnical engineer to determine their physical properties. If any material other than that previously tested is encountered during grading, the appropriate analysis of this material shall be conducted by the soils engineer as soon as possible.

PLACING, SPREADING AND COMPACTING FILL MATERIAL

The material used in the compacting process shall be evenly spread, watered, processed and compacted in thin lifts not to exceed six inches in thickness to obtain a uniformly dense layer.

When the moisture content of the fill material is below that specified by the soils engineer, water shall be added by the contractor until the moisture content is near optimum as specified.

When the moisture content of the fill material is above that specified by the geotechnical engineer, the fill material shall be aerated by the contractor by blading, mixing, or other satisfactory methods until the moisture content is near optimum as specified.

After each layer has been placed, mixed, and spread evenly, it shall be thoroughly compacted to 90 percent of the maximum laboratory density in compliance with ASTM D: 1557-70 (5 layers). Compaction shall be accomplished by sheepsfoot rollers, vibratory rollers, multiple-wheel pneumatic-tired rollers, or other types of acceptable compacting equipment. Equipment shall be of such design that it will be able to compact the fill to the specified density. Compaction shall be continuous over the entire area and the equipment shall make sufficient passes to obtain the desired density uniformly.

A minimum relative compaction of 90 percent out to the finished slope face of all fill slopes will be required. Compacting of the slopes shall be accomplished by backrolling the slopes in increments of 2 to 5 feet in elevation gain or by overbuilding and cutting back to the compacted inner core, or by any other procedure which produces the required compaction.

GRADING INSPECTIONS

The geotechnical engineer shall inspect the placement of fill during the grading process and will file a written report upon completion of grading stating his observations as to compliance with these specifications.

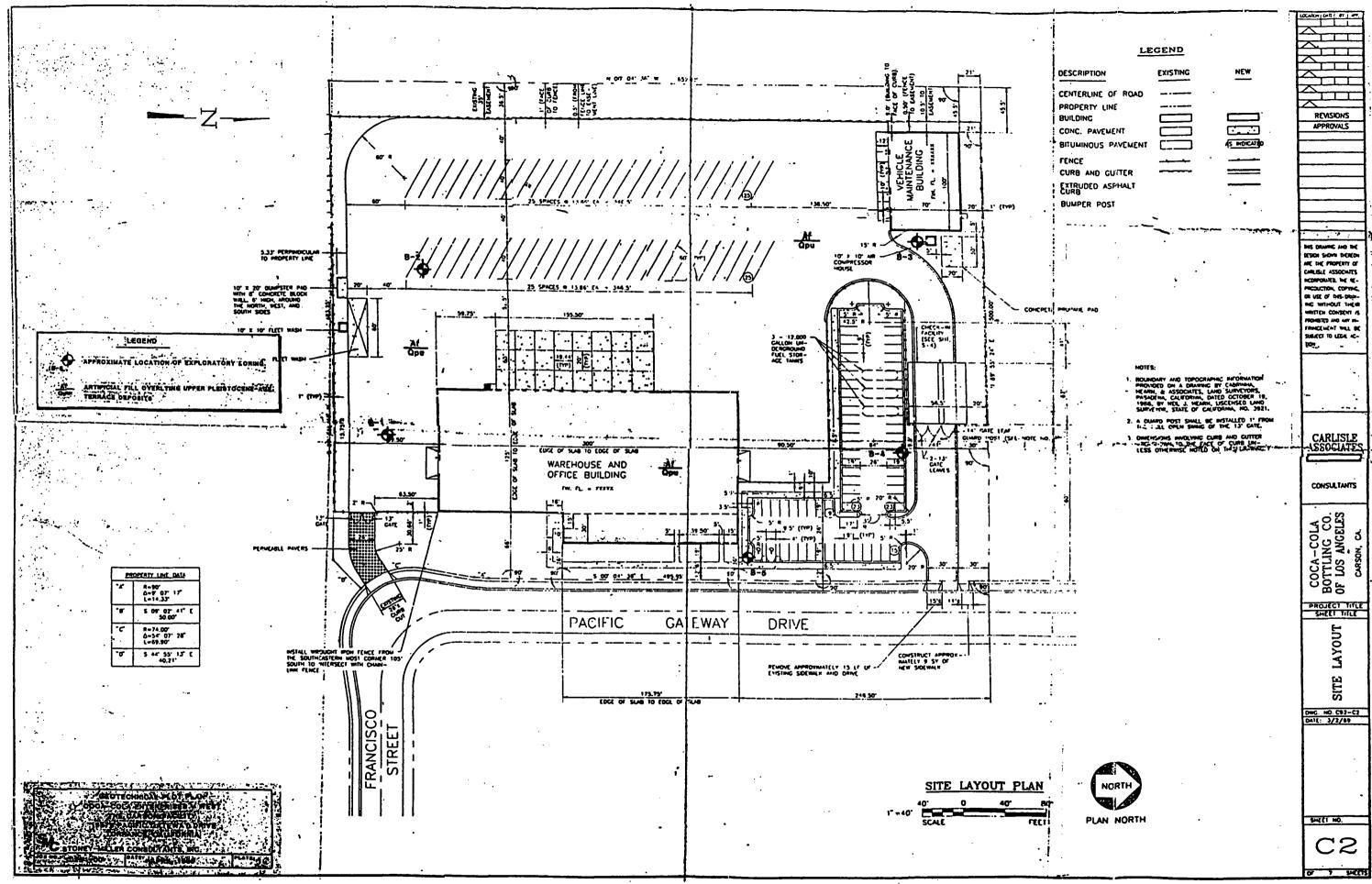
One density test shall be required for each 2 vertical feet of fill placed, or one for each 1,000 cubic yards of fill, whichever requires the greater number of tests.

Any cleanouts and processed ground to receive fill must be inspected by the geotechnical engineer and/or engineering geologist prior to any fill placement. The contractor shall notify the soils engineer when these areas are ready for inspection.

PROTECTION OF WORK

During the grading process and prior to the complete construction of permanent drainage controls, it shall be the responsibility of the contractor to provide good drainage and prevent ponding of water and damage to adjoining properties or to finished work on the site.

After the geotechnical engineer has terminated his inspections of the completed grading, no further excavations and/or filling shall be performed without the approval of the geotechnical engineer, if it is to be subject to the recommendations of this report.





STONEY-MILLER CONSULTANTS, INC.

GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

November 16, 1988

Coca-Cola Enterprises 1334 South Central Avenue Los Angeles, California

Froject No: 10221-00 Report No: 8-0417

Attn: Mr. Raul Ramirez

Subject: Interim Report of findings of an ongoing Environmental Assessment of the South Bay Warehouse Facility, Pacific

Gateway Drive, Torrance, California.

Gentlemen:

1.0 INTRODUCTION

As you are aware Stoney-Miller Consultants, Inc. (SMC) has recently retained to evaluate the been environmental aspects of the subject property. Most recently we have conducted a limited investigation to evaluate and determine the extent οf relatively near surface hydrocarbon contamination near the northwest corner of the site. Interim Report has been prepared to summarize the following information. Included in this interim report are explanation and presentations of:

- The sequence of events that caused SMC to discover the subsurface hydrocarbon contamination, i.e. background;
- o A generalized description of the methods utilized to investigate the limits of hydrocarbon contamination;
- O A generalized description of the laboratory analyses utilized during the investigation:
- O A summary of the findings of the investigation; and
- A presentation or conclusions and recommendations to local local Enterprises.

To protect Coca-Cola's interest in the transaction of purchasing the subject site, we recommend that a full scale investigation be conducted and a report prepared which is suitable for submittal to government regulatory agencies. This investigation and report should be sufficient in scope to provide Coca-Cola with an adequate understanding of the financial ramifications of purchasing a site that is known to have subsurface contamination. This Interim Report should only be considered as a means of conveying the general findings of the investigation of the subsurface hydrocarbon contamination found, to Coca Cola, a party that is not currently the owner of the site but, is interested in understanding the environmental liability that could be inherited by the purchase of the site.

2.0 BACKGROUND, AND INVESTIGATIVE PROCEDURES

SMC was originally retained by Coca-Cola to conduct an investigation which was generally to consist of: an evaluation of the geotechnical (structural) aspects of the site: and an environmental assessment of site and vicinity. The geotechnical investigation was to include drilling and sampling. i.e. physically examining representative soils underlying the site. The environmental assessment was intended to include a monphysical evaluation. i.e. legards research of the evin fental aspects or the site. This type of assessment has in recent years become a routine assessment of

the purchase of commercial property. The exception to this separation of tasks was that a member of our environmental staff was to review the results of the geotechnical drilling and sampling program as part of the environmental assessment. Environmental problems other than the one discussed in this report found to be associated with the site vicinity, for example, there are numerous EPA Superfund Sites located within a few miles of the site. These problems are not presented in this Interim Report, see letter from SMC to Coca-Cola dated October 26, 1988.

During drilling and sampling activities, SMC's geologist noted a suspicious odor associated with soil samples collected near the northwest corner of the site. This information was reported to our environmental staff and following authorization from Coca-Cola, laboratory analyses of a selected soil sample was conducted. The laboratory chemical staff began their evaluation of the sample by physical examination. The results of the physical examination were that the soil was likely contaminated with a relatively heavy hydrocarbon chemical mixture. The laborator, chemists recommended to SMO that to begin the analyses. an Environmental Protection Agency (EPA) standard apalysis Technod 415.1 should be perrothed on the sample.

Assolts of the Wib.1 amel.res indicated that is, mg ... it.
Tata: Fetic.eum Hydroparbons welle poitteined in the soil

November 16, 1988 Fage 4

method 6270 be conducted on the soil sample. Results of the 6270 analyses revealed that relatively low concentrations of semi-volatile hydrocarbons were contained in the sample. These results are included as Appendix A of this Interim Report.

Results of the laboratory analyses were reported verbally to Coca-Cola and additional drilling, soil sampling, and laboratory analyses were authorized. The purpose of this second phase of the investigation was to determine with a limited amount of drilling and sampling, if the hydrocarbons found are an isolated case or a more extensive problem. Results of the second phase of the investigation indicated the possibility that the hydrocarbon contamination could be relatively extensive. A decision was made by SMC and Coca-Cola to conduct laboratory analyses on selected soil samples and review the results prior to continuing with any additional drilling and soil sampling.

Results of drilling and sampling observations and correlation with laboratory results were that when physical observations such as color, texture, and coor indicated that the spilles contaminated, isolistory results terribed these observations. Likewise, then prosing these coses and the color of were obeat, as lating as a sea terribed these coses and as besed in this discovery. It is as authorized by line does not

November 16, 1988 Page 5

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conduct additional drilling and sampling and by physical determine the extent of the ctservation. hydrocarbon contamination. Thus, a phase three drilling and sampling program was conducted. Soil samples were to be collected and preserved in case labortory analyses became necessary in the future. To date no laboratory analyses have been conducted on soil samples collected during the phase three drilling and sampling program. The samples are currently refrigerated at SMC has recently been authorized by Cocathe SMC fability. Cola to select five representative soil samples from the phase three drilling program for analyses to confirm physical observations made. Laboratory analyses of these selected soil samples should be completed with ten days.

3.0 SUMMARY OF FINDINGS AND CONCLUSIONS

General findings of the phase 1, 2, and 3 investigation are as follows.

- o The vertical and horizontal limits of the hydrocarbon contamination have been established based on physical observations. The horizontal limits of the contamination are shown relative to surrounding structures on Figure 1, a sketch of the site. The maximum depth that contamination was found was approximately 10 feet and the average depth is between 3 and 5 feet.
- a Based on the horizontal and vertical limits of the contamination, the volume of contaminated soil appears to be between 750 and 1.000 cools yards. This is only an estimate, conditions found during the future removal of this soil could change butsize of the borings expanded, thus, this volume bound warv.

November 16, 1988 Page 6

4.0 RECOMMENDATIONS

- o Prior to the purchase of the subject site, Coca-Cola should be satisfied that the contaminated soil at the site has been thoroughly removed and properly documented or that a suitable arangement is made between the current owner and Coca-Cola that recognizes that clean up costs are likely to be incurred as a result of the finding of this contaminated soil. A general industry "rule of thumb cost" for the removal and legal disposal of hydrocarbon contaminated soil is between \$250.00 and \$300.00 per cubic yard.
- o The finding of hydrocarbon contaminated soil at this site should be reported to pertinent government regulatory agencies by the owner. And a remediation plan should be proposed and implemented.

5.0 LIMITATIONS OF INVESTIGATION

This Interim Report was prepared using a degree of care and skill ordinarily exercised, under similar circumstances, by reputable Soil Engineers, Geologists, and Environmental Scientists practicing in this or similar localities. No other warranty, expressed or implied is made as to the conclusions and professional advise included in this Plan. This Report was prepared for the use of Coca-Cola Enterprises and is intended for use as a means of final documentation of the contaminated soil discussed herein.

It you have any questions regarding this matter, please call.

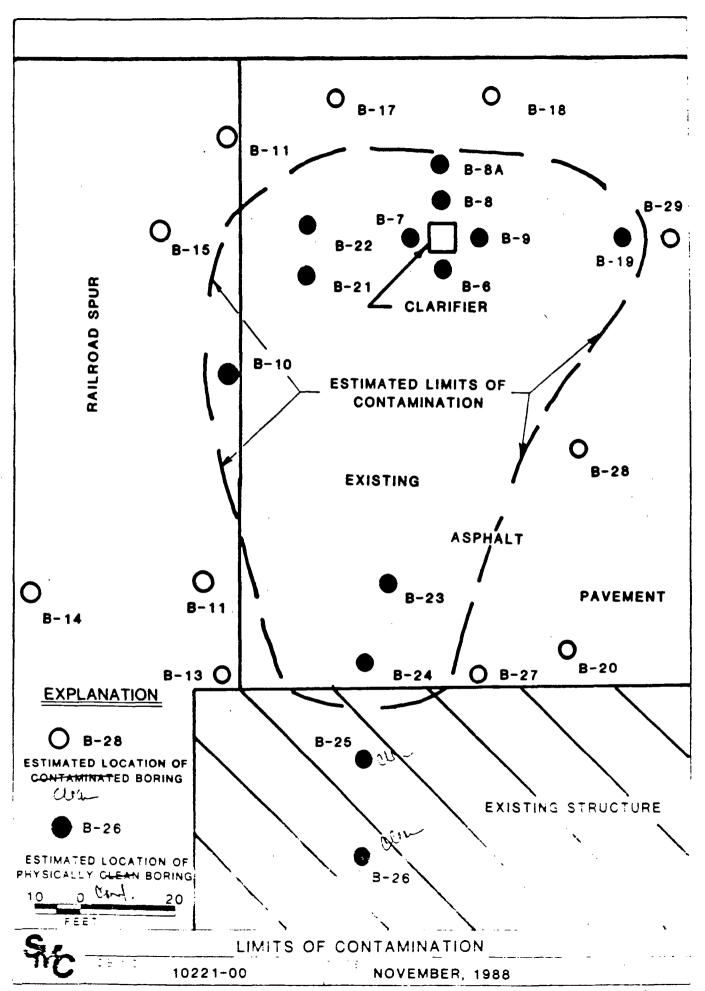
Very Truly Tours

Stoney-Miller Consultants, Inc.

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Donaust 🏿 Ervisonmental Geologist

Attachments: Figure 1 - Site Sketch



APPENDIX
LABROATORY RESULTS

TRUESDAIL LABORATORIES, INC.

-EMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT TEST NO # E E E 4 P E H

14201 FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714: . 730-6239 AREA CODE 2'3 . 225-1564 TRUELABS

CLIENT

Stoney-Miller Consultants 14 Hughes, Suite B-101

Irvine, California 92718

Attention: Gary Carlin

SAMPLE

Soils B-3 - 1' from Coca Cola, Torrance

DATE October 17, 1988

RECEIVED

Cotaber 5, 1988

LABORATORY NI

31002

INVESTIGATION

As Requested

RESULTS

Parameter

Milligrams per Kilogram

Total Petroleum Hydrocarbons (418.1)

858

Polychlorinated Biphenyls (8080):

PCB - 1016	ND <0.1
PCB - 1221	ND <0.1
PCB - 1232	ND <0.1
PCB - 1242	ND <0.1
PCB - 1248	ND <0.1
PCB - 1254	ND <0.1
PCB - 1260	ND <0.1

Respectfully submitted,

TRUESDAIL LABORATORIES, INT.

Julia Nayberg, Manager

Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT

14201 FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 AREA CODE 213 . 225 - 1564 CABLE: TRUELABS

Stoney-Miller Consultants

14 Hughes, Suite B-101 Irvine, California 92718

Attention: Gary Carlin

October 17, 1358 DATE

RECEIVED October 5, 1988

LABORATORY NO.

3.002

SAMPLE

CLIENT

Soils B-3 - 1' from Coca Cola, Torrance

INVESTIGATION

As Requested

RESULTS

Parameter	Milligrams per Kilogram

Total Petroleum Hydrocarbons (418.1)

858

Polychlorinated Biphenyls (8080):

PCB - 1016	ND <0.1
PCB - 1221	ND <0.1
PCB - 1232	ND <0.1
PCB - 1242	ND <0.1
PCB - 1248	ND <0.1
PCB - 1254	ND <0.1
PCB - 1260	ND <0.1

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganio Inezistry

This report applies only to the sample of samples investigated and is not necessarily indicative. The quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used in white this part in any advertising or publicity matter without prior written authorization from these Laboratories. 000477 007

TRUESDAIL LABORATORIES. INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT TEST: NO

TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TPUELABS

CLIENT

Stoney-Miller Consultants, Inc.

DATE

October 17, 1988

RECEIVED October 5, 1988

LABORATORY NO.

3:002

SAMPLE

Soil: B-3-1'

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis 2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	660	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Berzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660		ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	\mathbf{N} D
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Iscrhorone	660	ug/kg	ND
2-Kitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	. ND
Benzoic Acid	3300	ug/kg	ND
bis 2-Chloroethyoxy) methane	660	<u> </u>	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2.4-Trichlorobenzene	660	ig ig	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

This for mapples which to the sample of samples incestizated and on the lessable indicative of the adultion of a notion of application to the public and the last ratheres, this feet mass and according to the customers are the samples of a sample and according to the condition that the first dead in white compart in an adultion of a pair with last of the written authorization from these Laboratories.

NI = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 3:002 CLIENT: Stoney-Miller

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	9,400	
4-Chloroaniline	1300		NĎ	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentatiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg ug/kg	ND	
4-Nitroaniline	3300	ug/kg ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
	660	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	7,700	
Anthracene	660	ug/kg	ND	
	660	ug/kg ug/kg	ND	
Di-n-butylphthalate Fluoranthene	660		ND	
Pyrene	660	ug/kg ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg ug/kg	ND	
Benzo(a)anthracene	660		ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND ND	
ore/v=e only ruexly 1) buring refe	000	ug/kg	ii D	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUEBDAIL LABORATORIES, INC.

LAB NUMBER: 31002 CLIENT: Stoney-Miller

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit* ***	Concentration (ug/kg)**
Chrysene	660 ug/kg	ND
Di-n-octal phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a) prene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g, t, i) perylene	660 ug/kg	ND

- * Detecting limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

*** The detection limits were multiplied by 100X.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

India paybers

Julia Nayberg, Manager Inorganic Chemistry

007 000450

TRUESDAIL LABORATORIES. INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE Soils from Coca-Cola, Torrance

14201 FRANKLIN AVENUE TUSTIN CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE TRUELABS

DATE October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100

INVESTIGATION

As requested

RESULTS

MILLIGRAMS PER KILOGRAM

Sample Identification	Total Petroleum Hydrocarbons (418.1)
B-7-5'	2
B-7-15'	<1
B-8-2 ¹ / ₂ '	8,686
B-8-15'	<1
B-9-5'	210
B-9-15'	<1
B-10-3'	1,880
B-10-10'	<1
B-11-8'	4

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

alle Bayker

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

TEMISTS - MICROBIOLOGISTS - ENGINEERS

Stoney-Miller Consultants, Inc.

14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

B-7-5'

SAMPLE

CLIENT

TUSTIN. CALIFORNIA 92680 AREA CODE 714 - 730-6239 AREA CODE 213 - 225-1564 C A B L October 25, A1888

DATE

October 17, 1988

RECEIVED

31100-1

LABORATORY NO

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (RPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
<pre>bis(2-Chloroethyoxy)methane</pre>	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

Constituent	Approximate Detection I mit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	. ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**
Chrysene	660 ug/kg	ND
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

REPORT -

TRUESDAIL LABORATORIES. INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS RESEARCH _ DEVELOPMENT -

Stoney-Miller Consultants, Inc. 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

CLIENT

B-7-15'

TUSTIN, CALIFORNIA 92682 AREA CODE 714 . 730-6239 AREA CODE 213 . 225 - 1564 CABLE: TRUELAES

DATE

October 25, 1988

RECEIVED

October 17, 1988

LABORATORY NO.

31100-2

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethy1) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
l,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

NI = Not detected, below detection limit.

This tent of the second of the sample of samples intestigated and of the control of the discrete of analysis of the sample of sample of the sa of the authorization from these Laboratories

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-2

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	. 660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660		ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	.ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

· EMISTS · MICROBIOLOGISTS · ENGINEERS

. aeeeaaa

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

CLIENT Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-8-21/21

14201 AREA CODE 7 4 . 730-6239 AREA CODE 23 . 225-1564 October 25, 1988 CABLE

DATE

October 17, 1988

RECEIVED

LABORATORY NO

31100-3

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
<pre>bis(2-Chloroethyoxy)methane</pre>	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**	
Naphthalene	660	ug/kg	55,500	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660		ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	32,600	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	16,600	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	15,100	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	32,400	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	10,100	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ection mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10%.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

007 000490

TRUESDAIL LABORATORIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS

RESEARTH DEVELOPMENT

Stoney-Miller Consultants, Inc. CLIENT

14 Hughes, Suite Bl01 Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-8-15'

TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 TRUELABS

DATE

October 25, 1988

RECEIVED

October 17, 1988

LABORATORY NO.

31100-4

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	·ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	$\mathbf{ND}_{\mathbb{R}^{+}}$
1,2,4-Trichlorobenzene	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

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Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660		ND ·	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg ug/kg	ND	
Phenanthrene	660	ug/kg ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg ug/kg	ND	
Fluoranthene	660	ug/kg ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg ug/kg	ND	
Benzo(a)anthracene	660	ug/kg ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg ug/kg	ND	
Pro/r-ermitmevAt/burnatare	000	~9/~9	1412	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-4

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)** ND
Chrysene	660	ug/kg	
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEFELOPMENT - TESTING

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-9-5'



14201 FRANKLIN AVENUE TUSTIN. CALIFORNIA 9268C AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 C A B L E . T R U E L A B S

DATE October 25, 1988

RECEIVED October 17, 1986

LABORATORY NO.

31100-5

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophencl	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	, ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

The empirical pures which is sample or summers individual continuous model exercised constraints and the Asia model experience in the end of the continuous and the exercised constraints and the end of the end

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-5

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	. 660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

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TRUESDAIL LABORATORIES, INC.

... TEMISTS - MICROBIOLOGISTS - ENGINEERS RESEARCH DEVELOPMENT

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01 CLIENT

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

5-9-15'

14201 FRANKLIN AVENUE TUSTIN. CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELAES

DATE

October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO. ,

31100-6

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

		ximate ction	Concentration	
Constituent	Limit*		(ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzcic Acid	3300	ug/kg	ND	
<pre>bis(1-Chloroethyoxy)methane</pre>	660	ug/kg	ND	
2,4-lichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	· ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	. ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager
Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

JEMISTS - MICROBIOLOGISTS - ENGINEERS

DEVELOPMENT RESEARCH

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

CLIENT Irvine, CA 92718

Attention: Gary Carlin

B-10-3'

SAMPLE

1420: FRANKLIN AVENUE TUSTIN CALIFORNIA 92680 AREA SIDE 714 . 730-6239 AREA 222 213 . 225-1564 CABLE TRUELABS October 25, 1988

DATE

October 17, 1988

RECEIVED

LABORATOF: NO.

31100-7

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
<pre>bis(2-Chloroethyl) ether 2-Chlorophenol</pre>	660	ug/kg	ND
	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	NO
l,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	NO
Hexachloroethane	660	ug/kg	NI
Nitrobenzene	660	ug/kg	NI
Isophorone	660	ug/kg	NI
2-Nitrophenol	660	ug/kg	NI NI
2,4-Dimethylphenol	660	ug/kg	NI
Benzoic Acid	3300	ug/kg	NI
bis(2-Chloroethyoxy)methane	660	ug/kg	NI
2,4-Dichlorophenol	660	ug/kg	NI
1,2,4-Trichlorobenzene	660	ug/kg	N2

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
<pre>Indeno(1,2,3-cd)pyrene</pre>	660	ug/kg	ND
Dibenz(a,h)anthracene	660.	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

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INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Chrysene	660 ug	/kg	ND
Di-n-octyl phthalate	660 ug	/kg	ND
Benzo(b)fluoranthene	660 ug	/kg	ND
Benzo(k)fluoranthene		/kg	ND
Benzo(a)pyrene		/kg	ND
Indeno(1,2,3-cd)pyrene		/kg	ND
Dibenz(a,h)anthracene		/kg	ND
Benzo(g,h,i)perylene	-	/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

REMISTS - MICROBIOLOGISTS - ENGINEERS RESEARCH DEVELOPMENT

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01 CLIENT

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-11-8'

FRANKLIN 14201 AVENUE TUSTIN. CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 TRUELABS

DATE

October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-9

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
<pre>bis(2-Chloroethyl) ether 2-Chlorophenol</pre>	660 600	ug/kg ug/kg	ND ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol 1,2-Dichlorobenzene	1300 660	ug/kg	ND
2-Methylphenol	660	ug/kg ug/kg	ND ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug'kg	ND
4-Chlorcaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chlorozaphthalene	660	ug/kg	ND
2-Nitroamiline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroamiline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND ND
4-Nitrophenol	3300	ug/kg ug/kg	ND
Dibenzofuran	660	ug/kg ug/kg	ND ND
2,4-Dinitrotoluene	660	ug/kg ug/kg	ND ND
	660		ND ND
2,6-Dinitrotoluene Diethylphthalate	660	ug/kg	ND .
	660	ug/kg	ND ND
4-Chlorophenyl phenyl ether Fluorene	660	ug/kg	ND ND
· · · · · · · · · · · · · · · · · · ·		ug/kg	
4-Nitroamiline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl bezyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a) anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approx Detec Lim	tion	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate		ug/kg	ND
Benzo(b)fluoranthene		ug/kg	ND
Benzo(k)fluoranthene		ug/kg	ND
Benzo(a)pyrene		ug/kg	ND
Indeno(1,2,3-cd)pyrene		ug/kg	ND
Dibenz(a,h)anthracene		ug/kg	ND
Benzo(g,h,i)perylene		ug/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

HEM STS - MICROBIOLOGISTS - ENGINEERS RESELEC -DEVELOPMENT

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMFLE

B-10-10'

AREA CODE 7'4 . 730-6239 AREA CODE 2'3 . 225-1564 CABLE: T F U E L A B S

October 25, 1988 DATE

RECEIVED October 17, 1988

LABORATORY NO

31100-8

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

	Approximate Detection		Concentration	
Constituent		mit*	(ug/kg)**	
Phenol	€60	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
l,3-Dichlorobenzene	660	ug/kg	ND	
l,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND .	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropy1) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	€60	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
<pre>zis(2-Chloroethyoxy)methane</pre>	€60	ug/kg	ND	
2,4-Dichlorophenol	€60	ug/kg	ND	
1,2,4-Trichlorobenzene	€50	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/ kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below de ction limit.

DEPOPET. OF HEALTH SLOWICES ALBERT J. A RELLAND STATE OF CAL.



SR. WASTE MGT ENG. STONEY-MILLER CONSULTANTS, INC. 2/3/590-4920 GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY ATSS 635 4920

July 10, 1989

__Project No: 10221-00

Page No: 1

California Department Of Health Services Toxic Substance Control Division 245 West Broadway Room 350 Long Beach, California 90802

Subject: Recently acquired property of Coca Cola Enterprises in the Carson - Torrance area of the City Of Los Angeles, California at 19875 Pacific Gateway Drive.

Gentlemen:

Pursuant to our recent conversations, this letter has been prepared to provide your agency with a chronological sequence of events which have led to the current status of the subject property. In order to simplify the presentation, individual events and associated data are summarized in separate paragraphs below.

o In September, of 1988, Coca Cola Enterprises retained Stoney-Miller Consultants, Inc. (SMC), to assess the subject site prior to Coca Cola's purchase. The general scope of SMC's work was initially to conduct a subsurface investigation to evaluate the underlying soil properties of the geotechnically suitable for the construction of proposed installations. Additionally, the SMC scope of work included assessment of the site and vicinity for potential environmentally threatening problems that would have presented financial risk to Coca Cola upon purchase. In the initial phase of the SMC investigation, a layer of a petroleum contaminated soil was found in one boring located near the northwest corner of the site. A sample of the soil layer was submitted to an analytical laboratory, (Truesdail Laboratories, Inc. in Tustin, California), for a series of analyses.

Because the type of material found was unknown, SMC requested a recommendation of the method of analyses which could identify the contaminants. Truesdail Laboratories recommended that because the material exhibited heavy petroleum based characteristics, an initial analysis using EPA Method 418.1 be

14 HUGHES, SUITE B-101 IRVINE, CA 92718 (714) 380-4886

Project No: 10221-00 Page No: 2

July 10, 1989

conducted on the sample. Results of these analyses showed that the sample contained 856 mg/kg of Total Petroleum Hydrocarbons Based on these results, Truesdail recommended that the sample also be analyzed using EPA Method 8270 for Semi-Volatile Results of the analyses showed that relatively high concentrations of Naphthaline (9,400 ug/kg) and Phenanthrene (7,700 ug/kg) were contained in the sample. No other volatile organics were found in the sample. A photocopy of the analyses results are included as Appendix A to this letter. A general can be made that if the sample analyzed is conclusion representative of the subsurface contamination at the site, represents a negligible threat to environmental or public This conclusion is based on the relatively low of any contaminants found and that concentrations soluability of the contaminants are likely very low.

Following a review of the results of these analyses, directed to conduct a subsurface investigation to establish the vertical and horizontal limits of the contamination. A series auger borings was excavated in the area contamination. During the initial hand drilling operations, an observation was made that the limits of contamination could be Selected soil samples established by physical observations. were submitted to Truesdail for analyses to verify that That is, a series of physical observations were accurate. apparently clean and contaminated samples were analyzed. that physical laboratory analyses showed of Thus, the remainder of the observations were accurate. investigation was based on physical observations. laboratory findings substantiate the conclusion presented above that the contaminants found appear to have a very low Following the investigation, SMC estimated that soluability. approximately 1,000 cubic yards of contaminated soil existed in the subsurface near the northwest corner of the site. investigation also showed that a possible underground storage tank existed near the center of the contamination.

- o An agreement was made between Coca Cola and the previous owners of the site. The results of the agreement were that Coca Cola would purchase the site and remove and dispose of the soil according to pertinent government regulatory standards.
- o Following the purchase of the site, SMC was directed to contact appropriate government agencies to permit the removal of the possible tank and associated contaminated soil. SMC contacted the City Of Los Angeles Fire Department and was directed to obtain a permit to remove an unknown tank and advised that associated soil could be removed in conjunction with the tank removal. A licensed hazardous waste contractor, Ancon from Willmington, California was retained to obtain the permit and conduct removals. A small concrete structure was found during removal operations and to date approximately 2,000 cubic yards

July 10, 1989 Project No: 10221-00 Page No: 3

of contaminated soil has been removed and disposed. Following a series of data submittals, the soil has been accepted at and transported to a Class I disposal facility, the I.T. Imperial Facility located at 5295 South Garvey—Road, Westmoreland, California 92281. The laboratory data submitted to the disposal facility is included as Appendix B and photocopies of the manifests of soil which has been shipped to date is included as Appendix C of this letter.

o in conjunction with the removal of the known contaminated soil, a demolition contractor was retained by Coca Cola to remove the previously existing building and related structures from the This included the removal of all paving materials. site. additional After paving materials were the removed, contaminated soil was found along the northern portion of the site, just east of the recently removed contaminated soil area. At that time SMC was directed to conduct a site wide subsurface investigation to determine if there is any indication that additional areas of contamination exist at the site. investigation consisted of the excavation of a series of auger borings randomly spaced throughout the site. additional contaminated areas have been found and are shown on When indications of contamination were the attached site map. found, additional borings were excavated to establish the Coca Cola directed SMC to collect representative soil limits. samples for laboratory analyses to establish the toxicity of currently existing contaminated soil. A series of five soil samples, which were physically observed to be contaminated with hydrocarbons were submitted to Truesdail for analyses. samples were again analyzed using both EPA Methods 418.1 and 8270, TPH and Semi-volatile organics respectively. Results of these analyses showed that no semi-volatile organics are present in the soil samples but that a range of TPH (24 to A photocopy of 2,760 mg/kg) are associated with the samples. these results are included as Appendix D of this Because the currently known contamination was found outside the area where an underground tank was suspected, the LAFD was contacted and advised of the results. The LAFD representative requested that we contact the County Of Los Angeles Health Department (LAHD) to continue the cleanup process. representative, Mr. Tom Klinger, informed SMC and Coca Cola that his department did not have an adequately large staff to pursue a problem that was not an immediate public health risk and that we should contact the California Department of Health Services for further assistance.

Coca Cola is currently evaluating whether to remove the remaining contaminated soil or to conduct additional evaluations and to determine if it is technically feasible to allow the

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July 10, 1989

contamination to remain in place. Any technical assistance your department can offer would be appreciated. Because some soil has been removed from the site, steps must be implemented to document that the remaining excavations are clean. As a minimum, this will require that a grid system of samples be collected from the bottom of the apparently clean excavation and the samples analyzed. We assume that a representative from your department will be required to witness sampling activities. SMC and Coca Cola would appreciate your cooperation in this matter.

Please be advized that Coca Cola is prepared to implement a program to fully comply with current government regulatory standards or interpretations thereof regarding the subsurface contamination at the subject site. If you have any questions regarding this matter, please call either Gary T. Carlin with SMC at (714) 380-0599 or Raul Ramirez with Coca Cola at (213) 746-5555.

Very Truly Yours Stoney-Miller Consultants, Inc.

Gary T. Carlin

Consulting Environmental Geologist

Michael S Geotechnic

APPENDIX A

I'RUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 C A B L E : T R U E L A 8 S

CLIENT

SAMPLE

Stoney-Miller Consultants

14 Hughes, Suite B-101

Irvine, California 92718

Attention

Attention: Gary Carlin

Soils B-3 - 1' from Coca Cola, Torrance

DATE October 17, 1988

RECEIVED October 5, 1988

-- LABORATORY NO.

31002

NVESTIGATION

As Requested

RESULTS

Parameter

Milligrams per Kilogram

Total Petroleum Hydrocarbons (418.1)

858

<0.1 <0.1 <0.1 <0.1 <0.1 <0.1

Polychlorinated Biphenyls (8080):

PCB - 1016	ND
PCB - 1221	ND
PCB - 1232	ND
PCB - 1242	ND
PCB - 1248	ND
PCB - 1254	ND
PCB - 1260	ND
PCD = 1200	

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Naybers, Manager

Inorganic Chemistry

This report applies only to the sample, or samples investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories this teport is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

HESDAIL LABORATORIES, INC.

MISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT



14201 FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CDDE 213 . 225 - 1564 TRUELABS

Stoney-Miller Consultants, Inc.

DATE October 17, 1988 RECEIVED October 5, 1988

LABORATORY NO.

31002

PLE

NT

Soil: B-3-1'

ESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	660	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used in while or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

ND = Not detected, below detection limit.

LAB NUMBER: 31002 CLIENT: Stoney-Miller

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	-6 60	ug/kg	9,400	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300		ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	7,700	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31002 CLIENT: Stoney-Miller

Bann Neutrals Acid Extractables by GC/MS (EPA 8270) INVESTIGATION:

Constituent	Approximate Detection Limit* ***	Concentration (ug/kg)**
Chrysene Di-n-octyl phthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	660—ug/kg 660 ug/kg 660 ug/kg 660 ug/kg 660 ug/kg 660 ug/kg 660 ug/kg 660 ug/kg	ND ND ND ND ND ND ND ND ND

Detection limits may vary with the type of sample and with the concentrations of other species present.

ND = Not detected, below detection limit.

The detection limits were multiplied by 100X.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

n.l.is

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT TESTING RESEARCH

AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

14201

Stoney-Miller Consultants, Inc.

October 25, 1988 DATE

FRANKLIN TUSTIN, CALIFORNIA 92680

AVENUE

14 Hughes, Suite B101 92718 Irvine, CA

Gary Carlin Attention:

RECEIVED October 17, 1988

Soils from Coca-Cola, Torrance

LABORATORY NO. 31100

INVESTIGATION

CLIENT

SAMPLE

As requested

RESULTS

MILLIGRAMS PER KILOGRAM

Sample	Identification	Total Petroleum Hydrocarbons	(418.1)
	B-7-5'	2	
	B-7-15'	<1	
	$B-8-2^{1}/2'$	8,686	
	B-8-15'	<1	
	B-9-5'	210	
	B-9-15'	<1	
	B-10-3'	1,880	
	B-10-10'	<1	
	B-11-8'	. 4	

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

n.C. Haykey

Julia Nayberg, Manager Inorganic Chemistry

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	 660	- ug/kg	- ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**
Chrysene	660 ug/kg-	ND
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 C A B L E : T R U E L A B S

CLIENT

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-7-15'

DATE

October 25, 1988

RECEIVED

October 17, 1988

LABORATORY NO.

31100-2

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
l,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	. ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
<pre>bis(2-Chloroethyoxy)methane</pre>	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-2

Constituent	Approximate Detection Limit*		Detection		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND			
4-Chloroaniline	-1 300	ug/kg	- ND			
Hexachlorobutadiene	660	ug/kg	ND			
4-Chloro-3-methylphenol	1300	ug/kg	ND			
2-Methylnaphthalene	660	ug/kg	ND			
Hexachlorocyclopentadiene	660	ug/kg	ND			
2,4,6-Trichlorophenol	. 660	ug/kg	ND			
2,4,5-Trichlorophenol	660	ug/kg	ND			
2-Chloronaphthalene	660	ug/kg	· ND			
2-Nitroaniline	3300	ug/kg	ND			
Dimethyl phthalate	660	ug/kg	ND			
Acenaphthylene	660	ug/kg	ND			
3-Nitroaniline	3300	ug/kg	ND			
Acenaphthene	660	ug/kg	ND			
2,4-Dinitrophenol	3300	ug/kg	ND			
4-Nitrophenol	3300	ug/kg	ND			
Dibenzofuran	660	ug/kg	ND			
2,4-Dinitrotoluene	660	ug/kg	ND			
2,6-Dinitrotoluene	660	ug/kg	ND			
Diethylphthalate	660	ug/kg	ND			
4-Chlorophenyl phenyl ether	660	ug/kg	ND			
Fluorene	660	ug/kg	ND			
4-Nitroaniline	3300	ug/kg	ND			
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND			
N-Nitrosodiphenylamine	660	ug/kg	ND			
4-Bromophenyl phenyl ether	660	ug/kg	ND			
Hexachlorobenzene	660	ug/kg	ND			
Pentachlorophenol	3300	ug/kg	ND			
Phenanthrene	660	ug/kg	ND			
Anthracene	660	ug/kg	ND			
Di-n-butylphthalate	660	ug/kg	ND			
Fluoranthene	660	ug/kg	ND			
Pyrene	660	ug/kg	ND			
Butyl benzyl phthalate	660	ug/kg	ND			
3,3 ¹ -Dichlorobenzidine	1300	ug/kg	ND			
Benzo(a)anthracene	660	ug/kg	ND			
bis(2-ethylhexyl)phthalate	660	ug/kg	ND			

Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-2

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ection mit*	Concentration (ug/kg)**	
Chrysene	660	ug/kg	ND	
Di-n-octyl phthalate	660	ug/kg	ND	
Benzo(b)fluoranthene	660	ug/kg	ND	
Benzo(k)fluoranthene	660	ug/kg	ND	
Benzo(a)pyrene	660	ug/kg	ND	
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND	
Dibenz(a,h)anthracene	660	ug/kg	ND	
Benzo(g,h,i)perylene	660	ug/kg	ND	

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

Chémists - Microbiologists - Engineers

RESEARCH DEVELOPMENT -

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

CLIENT Irvine, CA 92718

Attention: Gary Carlin

B-8-21/2'

B-8-2-/2

142D1 FRANKLIN AVENUE TUSTIN. CALIFORNIA 9268D AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS October 25, 1988

DATE

October 17, 1988

RECEIVED

LABORATORY NO. 311

31100-3

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol bis(2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol bis(2-Chloroisopropyl) ether 4-Methylphenol N-Nitroso-Di-N-propylamine Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Benzoic Acid bis(2-Chloroethyoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene	660 660 660 660 660 660 660 660 660 660	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND ND ND ND ND ND ND ND ND ND N

- * Detection limits may vary with the type of sample and with the concentration of other species present.
- ** ND = Not detected, below detection limit.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

Naphthalene	Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
4-Chloroaniline 1300 ug/kg ND Hexachlorobutadiene 660 ug/kg ND 4-Chloro-3-methylphenol 1300 ug/kg ND 2-Methylnaphthalene 660 ug/kg ND 2-Methylnaphthalene 660 ug/kg ND 2-A, 6-Trichlorophenol 660 ug/kg ND 2, 4, 5-Trichlorophenol 660 ug/kg ND 2-Chloronaphthalene 660 ug/kg ND 2-Nitroaniline 3300 ug/kg ND Dimethyl phthalate 660 ug/kg ND Acenaphthylene 660 ug/kg ND 3-Nitroaniline 3300 ug/kg ND Acenaphthene 660 ug/kg ND 4-Nitrophenol 3300 ug/kg ND 1benzofuran 660 ug/kg ND 2,4-Dinitrotoluene 660 ug/kg ND 2,6-Dinitrotoluene 660 ug/kg ND 4-Chloroph	Naphthalene	660	ug/kg	55.500
Hexachlorobutadiene 660 ug/kg ND 4-Chloro-3-methylphenol 1300 ug/kg ND 2-Methylnaphthalene 660 ug/kg 32,600 Hexachlorocyclopentadiene 660 ug/kg ND 2,4,6-Trichlorophenol 660 ug/kg ND 2,4,5-Trichlorophenol 660 ug/kg ND 2-Chloronaphthalene 660 ug/kg ND 2-Nitroaniline 3300 ug/kg ND Dimethyl phthalate 660 ug/kg ND Acenaphtylene 660 ug/kg ND Acenaphthene 660 ug/kg ND 2,4-Dinitrophenol 3300 ug/kg ND 4-Nitrophenol 3300 ug/kg ND 2,4-Dinitrotoluene 660 ug/kg ND 2,6-Dinitrotoluene 660 ug/kg ND 2,6-Dinitrotoluene 660 ug/kg ND 4-Chlorophenyl phenyl ether 660 ug/kg ND				
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Hexachlorocyclopentadiene				
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Benzo(a)anthracene 660 ug/kg ND			•	
DISTZ-ETOVIDEYVIJOOTDATATE 660 na/ka NO	bis(2-ethylhexyl)phthalate	660	ug/kg ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**	
Chrysene	. g/kg <u>س</u> ے 660	ND	
Di-n-octyl phthalate	660 ug/kg	ND	
Benzo(b)fluoranthene	660 ug/kg	ND	
Benzo(k)fluoranthene	660 ug/kg	ND	
Benzo(a)pyrene	660 ug/kg	ND	
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND	
Dibenz(a,h)anthracene	660 ug/kg	ND	
Benzo(q,h,i)perylene	660 ug/kg	ND	

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS
ESEARCH - DEVELOPMENT - TESTING

DEVELOPMENT TESTIN

Stoney-Miller Consultants, Inc. 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

CLIENT

B-8-15'

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564

DATE

October 25, 1988

TRUELABS

RECEIVED

October 17, 1988

LABORATORY NO.

CABLE:

31100-4

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg '	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

This report applies only to the sample or samples investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

^{**} ND = Not detected, below detection limit.

Constituent	Det	Approximate Detection Conce Limit*	
Naphthalene	660	ug/kg	ND
4-Chloroaniline	-1300	-ug/kg	- ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate DetectionLimit*	Concentration (ug/kg)**	
Chrysene	660 _ug/kg.	ND	
Di-n-octyl phthalate	660 ug/kg	ND	
Benzo(b)fluoranthene	660 ug/kg	ND	
Benzo(k)fluoranthene	660 ug/kg	ND	
Benzo(a)pyrene	660 ug/kg	ND	
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND	
Dibenz(a,h)anthracene	660 ug/kg	ND	
Benzo(g,h,i)perylene	660 ug/kg	ND	

- ◆ Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

. EMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

TUSTIN, CALIFORNIA 9268Q AREA CODE 714 + 730-6239 AREA CODE 213 + 225-1564 C A B L E : T R U E L A B S

October 25, 1988

Stoney-Miller Consultants, Inc.

14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

RECEIVED October 17, 1988

LABORATORY NO.

DATE

31100-5

SAMPLE

CLIENT

B-9-5'

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kġ	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND ·
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	, ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

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^{**} ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	ND
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	-ug/kg	_ ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	.3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3 ¹ -Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**
Chrysene	660 ug/kg	ND
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES. INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE B-9-15'

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564

.-- October 25 1988

DATE October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

CABLE:

31100-6

TRUELABS

INVESTIGATION

CLIENT

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

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(1) 7 (1) 532

^{**} ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**		
Naphthalene	660	ug/kg	ND		
4-Chloroaniline	-1300	ug/kg	- ND		
Hexachlorobutadiene	660	ug/kg	ND		
4-Chloro-3-methylphenol	1300	ug/kg	ND		
2-Methylnaphthalene	660	ug/kg	ND		
Hexachlorocyclopentadiene	660	ug/kg	ND		
2,4,6-Trichlorophenol	660	ug/kg	ND		
2,4,5-Trichlorophenol	660	ug/kg	ND		
2-Chloronaphthalene	660	ug/kg	ND		
2-Nitroaniline	3300	ug/kg	ND		
Dimethyl phthalate	660	ug/kg	ND		
Acenaphthylene	660	ug/kg	ND		
3-Nitroaniline	3300	ug/kg	ND		
Acenaphthene	660	ug/kg	ND		
2,4-Dinitrophenol	3300	ug/kg	ND		
4-Nitrophenol	3300	ug/kg	ND		
Dibenzofuran	660	ug/kg	ND		
2,4-Dinitrotoluene	660	ug/kg	ND		
2,6-Dinitrotoluene	660	ug/kg	ND		
Diethylphthalate	660	ug/kg	ND		
4-Chlorophenyl phenyl ether	660	ug/kg	ND		
Fluorene	660	ug/kg	ND		
4-Nitroaniline	3300	ug/kg	ND		
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND		
N-Nitrosodiphenylamine	660	ug/kg	ND		
4-Bromophenyl phenyl ether	660	ug/kg	ND		
Hexachlorobenzene	660	ug/kg	ND		
Pentachlorophenol	3300	ug/kg	ND		
Phenanthrene	660	ug/kg	ND		
Anthracene	660	ug/kg	ND		
Di-n-butylphthalate	660	ug/kg	ND		
Fluoranthene	660	ug/kg	ND		
Pyrene	660	ug/kg	ND		
Butyl benzyl phthalate	660	ug/kg	ND		
3,3 ¹ -Dichlorobenzidine	1300	ug/kg	ND		
Benzo(a)anthracene	660	ug/kg	ND		
bis(2-ethylhexyl)phthalate	660	ug/kg	ND		

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

LAB NUMBER: 31100-6

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**		
Chrysene	660 -ug/kg-	ND		
Di-n-octyl phthalate	660 ug/kg	ND		
Benzo(b)fluoranthene	660 ug/kg	ND		
Benzo(k)fluoranthene	660 ug/kg	ND		
Benzo(a)pyrene	660 ug/kg	ND		
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND		
Dibenz(a,h)anthracene	660 ug/kg	ND		
Benzo(g,h,i)perylene	660 ug/kg	ND		

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

_.1EMISTS - MICROBIOLOGISTS - ENGINEERS

DEVELOPMENT TESTING RESEARCH

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

Irvine, CA 92718 CLIENT

> Attention: Gary Carlin

B-10-3'

SAMPLE

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 ÀREA CODE 213 . 225-1564 CABLE: TRUELABS

October 25, 1988

DATE

October 17, 1988

RECEIVED

LABORATORY NO.

31100-7

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	, ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

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000535 0.07

ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**		
Naphthalene	660	ug/kg	14,400		
4-Chloroaniline	-1300	ug/kg	- ND		
Hexachlorobutadiene	660	ug/kg	ND		
4-Chloro-3-methylphenol	1300	ug/kg	ND		
2-Methylnaphthalene	660	ug/kg	10,500		
Hexachlorocyclopentadiene	660	ug/kg	ND		
2,4,6-Trichlorophenol	660	ug/kg	ND		
2,4,5-Trichlorophenol	660	ug/kg	ND		
2-Chloronaphthalene	660	ug/kg	ND		
2-Nitroaniline	3300	ug/kg	ND		
Dimethyl phthalate	660	ug/kg	ND		
Acenaphthylene	660	ug/kg	ND		
3-Nitroaniline	3300	ug/kg	ND		
Acenaphthene	660	ug/kg	ND		
2,4-Dinitrophenol	3300	ug/kg	ND		
4-Nitrophenol	3300	ug/kg	ND		
Dibenzofuran	660	ug/kg	ND		
2,4-Dinitrotoluene	660	ug/kg	ND		
2,6-Dinitrotoluene	660	ug/kg	ND		
Diethylphthalate	660	ug/kg	ND		
4-Chlorophenyl phenyl ether	660	ug/kg	ND		
Fluorene	660	ug/kg	ND		
4-Nitroaniline	3300	ug/kg	ND		
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND		
N-Nitrosodiphenylamine	660	ug/kg	ND		
4-Bromophenyl phenyl ether	660	ug/kg	ND		
Hexachlorobenzene	660	ug/kg	ND		
Pentachlorophenol	3300	ug/kg	· ND		
Phenanthrene	660	ug/kg	10,200		
Anthracene	660	ug/kg	ND		
Di-n-butylphthalate	660	ug/kg	ND		
Fluoranthene	660	ug/kg	ND		
Pyrene	660	ug/kg	ND		
Butyl benzyl phthalate	660	ug/kg	ND		
3,3'-Dichlorobenzidine	1300	ug/kg	ND		
Benzo(a)anthracene	660	ug/kg	ND		
bis(2-ethylhexyl)phthalate	660	ug/kg	ND		

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INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**		
Chrysene	660 -ug/kg-	N D		
Di-n-octyl phthalate	660 ug/kg	ND		
Benzo(b)fluoranthene	660 ug/kg	ND		
Benzo(k)fluoranthene	660 ug/kg	ND		
Benzo(a)pyrene	660 ug/kg	ND		
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND		
Dibenz(a,h)anthracene	660 ug/kg	ND		
Benzo(g,h,i)perylene	660 ug/kg	ND		

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- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

EMISTS - MICROBIOLOGISTS - ENGINEERS

RESEARCH - DEVELOPMENT - TESTINE

Stoney-Miller Consultants, Inc.
CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE D 10 101

B-10-10'

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-8

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

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Constituent	Approximate Detection Limit*			Concentration (ug/kg)**		
Naphthalene	660	ug/kg			ND	
4-Chloroaniline	1300	ug/kg			ND	
Hexachlorobutadiene	-6 60	ug/kg	-	-	ND	
4-Chloro-3-methylphenol	1300	ug/kg			ND	
2-Methylnaphthalene	660	ug/kg			ND	
Hexachlorocyclopentadiene	660	ug/kg			ND	
2,4,6-Trichlorophenol	660	ug/kg			ND	
2,4,5-Trichlorophenol	660	ug/kg			ND	
2-Chloronaphthalene	660	ug/kg			ND	
2-Nitroaniline	3300	ug/kg			ND	
Dimethyl phthalate	660	ug/kg			ND	
Acenaphthylene	660	ug/kg			ND	
3-Nitroaniline	3300	ug/kg			ND	
Acenaphthene	660	ug/kg			ND	
2,4-Dinitrophenol	3300	ug/kg			ND	
4-Nitrophenol	3300	ug/kg			ND	
Dibenzofuran	660	ug/kg			ND	
2,4-Dinitrotoluene	660	ug/kg			ND	
2,6-Dinitrotoluene	660	ug/kg			ND	
Diethylphthalate	660	ug/kg			ND	
4-Chlorophenyl phenyl ether	660	ug/kg			ND	
Fluorene	660	ug/kg			ND	
4-Nitroaniline	3300	ug/kg			ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg			ND	
N-Nitrosodiphenylamine	660	ug/kg			ND	
4-Bromophenyl phenyl ether	660	ug/kg			ND	
Hexachlorobenzene	660	ug/kg			ND	
Pentachlorophenol	3300	ug/kg			ND	
Phenanthrene	660	ug/kg			ND	
Anthracene	660	ug/kg			ND	
Di-n-butylphthalate	660	ug/kg			ND	
Fluoranthene	660	ug/kg			ND	
Pyrene	660	ug/kg			ND	
Butyl benzyl phthalate	660	ug/kg			ND	
3,3'-Dichlorobenzidine	1300	ug/kg			ND	
Benzo(a)anthracene	660	ug/kg			ND	
bis(2-ethylhexyl)phthalate	660	ug/kg			ND	

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LAB NUMBER: 31100-8

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**
Chrysene	660 _ug/kg	ND
Di-n-octyl phthalate	660 ug/kg	T ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

IEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

Stoney-Miller Consultants, Inc.

14 Hughes, Suite B101 **CLIENT**

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE B-11-8'

TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

DATE

October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-9

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

		ximate ction	Concentration
Constituent		mit*	(ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
l,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	· ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

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007 000541

ND = Not detected, below detection limit.

LAB NUMBER: 31100-9

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	ND
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	_ ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit...

LAB NUMBER: 31100-9

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	Concentration (ug/kg)**
Chrysene	. 660 _ug/kg .	םת
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

TRUESDAIL LABORATORIES. INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

Georemediation

14 Hughes, Suite B 101 CLIENT

Irvine, California 92718

Attention: Gary Carlin

Soil: S-1, March 24, 1989

Project: Stoney-Miller Consultants, Inc.

Coca-Cola, Torrance

14201 FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225 - 1564 TRUELABS

March 31, 1989 DATE

March 24, 1989 RECEIVED

LABORATORY NO. 32277-2

INVESTIGATION

SAMPLE

Hazardous Waste Evaluation per Title 22 California Code of Regulations.

RESULTS

PARAMETER	TTLC	MILLIGRAMS PER KILOGRAM
Antimony (Sb, 6010)	500.	<0.94
Arsenic (As, 7061)	500.	5.71
Barium (Ba, 7080)	10000.	102.5
Beryllium (Be, 7090)	75.	<0.94
Cadmium (Cd, 7130)	100.	6.01
Chromium (Cr. 7190)	2500.	22.7
Cobalt (Co, 7200)	8000.	9.85
Copper (Cu, 7210)	2500.	18.6
Lead (Pb, 7420)	1000.	<0.50
Mercury (Hg, 7470)	20.	<0.005
Molybdenum (Mo, 7480)	3500	<0.94
Nickel (Ni, 7520)	2000.	<0.50
Selenium (Še, 7741)	100.	<0.087
Silver (Ag, 7470)	500.	<0.94
Thallium (Tl, 7840)	700.	<10.0
Vanadium (V. 7910)	2400.	32.0
Zinc (Zn, 7950)	5000.	48.1

Respectfully submitted. TRUESDAIL LABORATORIES, INC.

Gregory Everett, Project Manager

Inorganic Chemistry

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories

TRUESDAIL LABORATORIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT



AREA CODE 213 .

CLIENT

Georemediation

14 Hughes, Suite B 101

Irvine, California 92718

Attention:

Gary Carlin

DATE March 31, 1989

RECEIVED March 24, 1989

LABORATORY NO. 32277

SAMPLE

Soil: S-1, March 24, 1989

Project: Stoney-Miller Consultants, Inc.

Coca-Cola, Torrance

INVESTIGATION

As Requested

RESULTS

PARAMETER

CONCENTRATION, mg/kg

pH, units (9040)

7.8

Sulfide (9030)

<0.1

Cyanide (9010)

<0.04

Flashpoint

>150° F

Total Petroleum Hydrocarbons

(E.P.A. 8015, Modified)

5,136

PCB's (8080)

<0.4

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Gregory W. Everett, Project Manager

Water and Waste Laboratory

This report applies only to the sample or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter. without prior written authorization from these Laboratories.

APPENDIX B

 $i\in g_{k}^{-1}, \dots, s$

DATE

RECEIVED

LABORATORY NO.

TUSTIN, CALIFORNIA 92680

AREA CODE 714 . 730-6239

March 31, 1989

TRUELABS

March 24, 1989

32277-2

AREA CODE 213 CABLE:

TRUESDAIL LABORATORIES, INC.

LHEMISTS - MICROBIOLOGISTS - ENGINEERS RESEARCH DEVELOPMENT TESTING

Georemediation

14 Hughes, Suite B 101 Irvine, California 92718

Attention: Gary Carlin

SAMPLE

Coca-Cola. Torrance

Soil: S-1, March 24, 1989

Project: Stoney-Miller Consultants, Inc.

INVESTIGATION

CLIENT

Hazardous Waste Evaluation per Title 22 California Code of Regulations.

RESULTS

PARAMETER	TTLC	MILLIGRAMS PER KILOGRAM
Antimony (Sb, 6010)	500.	<0.94
Arsenic (As, 7061)	500.	5.71
Barium (Ba, 7080)	10000.	102.5
Beryllium (Be, 7090)	75.	<0.94
Cadmium (Cd. 7130)	100	6.01
Chromium (Cr. 7190)	2500.	22.7
Cobalt (Co, 7200)	8000.	9.85
Copper (Cu. 7210)	2500.	18.6
Lead (Pb. 7420)	1000.	<0.50
Mercury (Hg, 7470)	20.	<0.005
Molybdenum (Mo, 7480)	3500.	<0.94
Nickel (Ni, 7520)	2000.	<0.50
Selenium (Se, 7741)	100.	<0.087
Silver (Ag, 7470)	500.	<0.94
Thallium (Tl, 7840)	700.	<10.0
Vanadium (V, 7910)	2400.	32.0
Zinc (Zn, 7950)	5000.	48.1

Respectfully submitted, TRUESDAIL LABORATORIES. INC.

Gregory Everett, Project Manager

Inorganic Chemistry

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING



14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 C A B L E : T R U E L A B S

CLIENT Georemediation

14 Hughes, Suite B 101

Irvine, California 92718

Attention: Gary Carlin

DATE March 31, 1989

RECEIVED March 24, 1989

LABORATORY NO. 32277

SAMPLE

Soil: S-1, March 24, 1989

Project: Stoney-Miller Consultants, Inc.

Coca-Cola, Torrance

INVESTIGATION

As Requested

RESULTS

PARAMETER

CONCENTRATION, mg/kg

pH, units (9040)

7.8

Sulfide (9030)

<0.1

Cyanide (9010)

<0.04

Flashpoint

>150° F

Total Petroleum Hydrocarbons

5,136

(E.P.A. 8015, Modified)

PCB's (8080)

<0.4

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Gregory W. Everett, Project Manager

Water and Waste Laboratory

TRUESDAIL LABORATORIES, INC.

L..EMISTS - MICROBIOLOGISTS - ENGINEERS

RESEARCH - DEVELOPMENT - TESTIN

GEOREMEDIATION

14 Hughes Street, Suite Bl01

Irvine, CA 92718

DATE

14201

CABLE:

RECEIVED March 24, 1989

FRANKLIN AVENUE

TRUELABS

TUSTIN, CALIFORNIA 92680

AREA CODE 714 . 730-6239

AREA CODE 213 . 225-1564

April 6, 1989

LABORATORY NO. 32344

SAMPLE

CLIENT

Soil S-1, Project: Stoney Miller

Coca-Cola, Torrance

INVESTIGATION

PURGEABLE ORGANICS (Volatiles) by EPA 8010 GC-HECD

RESULTS

Constituent	Detection Limit* ug/kg	Concentration** ug/kg
Bromodichloromethane	5.0	ND
Bromoform	5.0	ND
Carbon Tetrachloride	5.0	ND
Chlorobenzene	5.0	ND
Chloroform	5.0	ND
bis (2-Chloroethyl) ether	5.0	ND
Dibromochloromethane	5.0	ND
1,2-Dichlorobenzene	5.0	ND
1,3-Dichlorobenzene	5.0	ND
1,4-Dichlorobenzene	5.0	ND
Dichlorodifluoromethane	5.0	ND
1,1-Dichloroethane	5.0	ND
1,2-Dichloroethane	5.0	ND
1,1-Dichloroethene	5.0	ND
trans-1,2-Dichloroethene	5.0	ND
1,2-Dichloropropane	5.0	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

** ND: Not detected, below the detection limit.

Constituent	Detection Limit* ug/kg	Concentration** ug/kg
cis-1,3-Dichloropropene	5.0	ND
trans-1,3-Dichloropropene	_ 5.0	ND
Methylene Chloride	5.0	ND
1,1,2,2-Tetrachloroethane	5.0	ND
Tetrachloroethene	5.0	ND
1,1,1-Trichloroethane	5.0	ND ·
1,1,2-Trichloroethane	5.0	ND
Trichloroethene	5.0	ND
Trichlorofluoromethane	5.0	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND: Not detected, below the detection limit.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Gregory W. Everett, Project Manager

Water and Waste Laboratory

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

AVENUE FRANKLIN • 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

32277

Georemediation, Inc.

14 Hughes, Suite 13101

Irvine, CA 92718

Attention: Gary Carlin DATE April 4, 1989

RECEIVED March 24, 1989

LABORATORY NO. Soils: S-1, March 24, 1989

Project: Stoney-miller Consultants, Inc.

Coca Cola, Torrance

INVESTIGATION Total Organiic Halides

RESULTS

Concentration mg/kg

?arameter

CLIENT

SAMPLE

Total Organic Halides (Tox. 9020)

115

Respectfully submitted.

TRUESDAIL LABORATORIES, INC.

Gregory W. Everett Project Manager

APPENDIX C

2. Generator's Name and Malling Address COCA. COLA. SOPTLING COMPART	 		A 24	to Man	,		br
1334 SOUTH CHESTAL, LOS ANGUES, CA	90021		9. Die	te Gen		852	2525
4. Generator's Phone 213) 746-5555				با	111		لململها
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7. Transporter 2 Company Name 8.	US EPA ID Number		↓		aporter's E		, 6/
1.1		111			r's Phone	-	
9. Designated Facility Name and Bite Address 10.	US EPA ID Number		G 34	ne Faci 1 - 1	my o D	4 [
\$295 S. GARVEY ROAD				Hity's (Phone	<u></u>	
WEST-CRELATO, CA 92261 C A		P.P.C			344-3-	100	 -
11. US DOT Description (including Proper Shipping Name, Hazard Class	s, and ID Number)	12. Con	Type		Total Ouentity	14. Unit Wt/Vol	Was
Contaminated Soil)							State
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18. Special Handling Instructions and Additional Information	·	•	_		·	4	· · · · · · · · · · · · · · · · · · ·
MEAR APPROVED SAFEET GEAR							
18. GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respirational government regulations. If I am a large quantity generator, I certify that I have a program in pito be economically practicable and that I have selected the practic present and future threat to human health and the environment OR, generation and select the best waste management method that is a	pects in proper condition for place to reduce the volume able method of treatment, , if I am a small quantity g	or transport in a second to the second to th	by higher y of was disposal	te gene	ording to appropriate of the control	oplicable e degree e to me w	I have dete hich minimi
GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respirational government regulations. If I am a large quantity generator, I certify that I have a program in pito be economically practicable and that I have selected the practice present and future threat to human health and the environment; OR, generation and select the best waste management method that is a Printed/Typed Name	pects in proper condition for place to reduce the volume able method of treatment, , if I am a small quantity g	or transport in a second to the second to th	by higher y of was disposal	te gene	ording to appropriate of the control	oplicable e degree e to me w	I have dete hich minimi
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GENERATOR'S CERTIFICATION: I hereby declare that the content and are classified, packed, marked, and labeled, and are in all respections. If I am a large quantity generator, I certify that I have a program in pito be economically practicable and that I have selected the practic present and future threat to human health and the environment; OR, generation and select the best waste management method that is a Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	sects in proper condition for state to reduce the volume able method of treatment, if I am a small quantity governable to me and that I signature	or transport in a second to the second to th	by higher y of was disposal	te gene	ording to appropriate of the control	oplicable e degree e to me w	have determined in the second of the second
GENERATOR'S CERTERICATION: I hereby declare that the content and are classified, pecked, marked, and labeled, and are in all reep national government regulations. If I am a large quantity generator, I certify that I have a program in p to be economically practicable and that I have selected the practic present and future threat to human health and the environment; OR, generation and select the best waste management method that is a Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name 18. Transporter 2 Acknowledgement of Receipt of Materials Pristed/Typed Name 19. Discrepancy Indication Spece	sects in proper condition for the volume able method of treatment. If I am a small quantity give like to me and that I seem a small quantity give like to me and that I seem a s	or transport	by higher by of was disposal ave med	ray acc	ording to appreciate to the try available and faith efforts.	oplicable e degree e to me w	have determined in the second of the second

WASTE MANIFEST		b b 47		ef . b m	metion in II i required	by Fede
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GOCA GOLA BOTTLENS COMPANY 1234 SQUEN CHISTAL, LOS MISHLI	ES. CA 80001		0. Sta	ite Generator's E		Y
Benerator's Phone				1111	111	111
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Transporter & Company Name	A US EPA ED Mumb	1/1/1/1/-		neponer e mon		: 5.
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Designated Facility Name and Site Address	10. US EPA ED Numbe	l 	8. 84	ile Facility's D	,ä.	
L. T. DEFERIAL PACILITY	•			تللثا	لللة	
\$295 S. CARVEY ROAD		. -	J	pility's Phone		
BESTHORFLAND, CA 92281	*****	12. Con		19) 344	9400_	τ
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EXPERIENCE LESS SEME 3.0 15. Special Handling Instructions and Additional Information WEAR APPROVED SAPETY CEAR	hat the contents of this consignment	are fully and a	ccurateh by highe	/ described abov	e by prope	er shippi
15. Special Handling Instructions and Additional Information ***EAR APPROVED SAPETY GEAR 16. GENERATOR'S CERTIFICATION: 1 hereby declare the and are classified, packed, marked, and labeled, and settlenal government regulations. If I am a large quantity generator, I certify that I have a	hat the contents of this consignment are in all respects in proper condition a program in place to reduce the vol-	n for transport ume and toxicit	by highing by of was	ray according to	by prope applicable	internal
IS. Special Handling Instructions and Additional Information IEAR APPROVED EXPERY GEAR 16. GENERATOR'S CERTIFICATION: 1 hereby declare the and are classified, packed, marked, and labeled, and national government regulations.	hat the contents of this consignment are in all respects in proper condition is program in place to reduce the vol- ied the practicable method of treatment fromment; OR, it I am a amait quantity	in for transport ume and toxicit int, storage, or y generator, I h	by highway of was dispose	ray according to its generated to currently availab	the degree	Internal I have which mi
IS. Special Handling Instructions and Additional Information WEAR APPROVED EXPERI GEAR 16. GENERATOR'S CERTIFICATION: I hereby declare th and are classified, packed, marked, and labeled, and is astional government regulations. If I am a large quantity generator, I certify that I have a to be economically practicable and that I have selecte present and future threat to human health and the envi	hat the contents of this consignment are in all respects in proper condition a program in place to reduce the vol- id the practicable method of treatment fronment; OR, if I am a amali quantity without that is available to me and that	in for transport ume and toxicit int, storage, or y generator, I h	by highway of was dispose	ray according to its generated to currently availab	the degree	Internal I have o which mis
IE. Special Handling Instructions and Additional Information WEAR APPROVED SAPETY GEAR BE. GENERATOR'S CERTIFICATION: 1 hereby declare the and are classified, packed, marked, and labeled, and instituant government regulations. If I am a large quantity generator, foortify that I have a to be economically practicable and that I have selected present and future threat to human health and the envision properties and select the best waste management me printed/Typed Name	hat the contents of this consignment are in all respects in proper condition in program in place to reduce the volt of the practicable method of treatment; OR, If I am a small quantification that is available to me and that	in for transport ume and toxicit int, storage, or y generator, I h	by highway of was dispose	ray according to its generated to currently availab	the degree	Internal I have which minimize m
IS. Special Handling Instructions and Additional Information WEAR APPROVED SAPETY GEOR IS. GENERATOR'S CERTIFICATION: 1 hereby declare th and are classified, packed, marked, and labeled, and in mational government regulations. If I am a large quantity generator, f certify that I have select present and future threat to human health and the entre generation and select the best waste management me **I'mted/Typed Name** **I'maporter 1 Acknowledgement of Receipt of Material** 7. Transporter 1 Acknowledgement of Receipt of Material**	hat the contents of this consignment are in all respects in proper condition in program in place to reduce the volument practicable method of treatment fromment; OR, if I am a amail quantity without that is available to me and that it is available	in for transport ume and toxicit int, storage, or y generator, I h	by highway of was dispose	ray according to its generated to currently availab	the degree	Internal I have which minimize m Month
IB. Special Handling Instructions and Additional Information IBAR APPROVED SIJEST GEOR IB. GENERATOR'S CERTIFICATION: 1 hereby declare th and are classified, packed, marked, and labeled, and in autional government regulations. If I am a large quantity generator, I certify that I have as to be economically practicable and that I have selecte present and future threat to human health and the environment of the selected of the large se	hat the contents of this consignment are in all respects in proper condition in program in place to reduce the volume of the practicable method of treatment fromment; OR, if I am a amail quantity without that is available to me and that it is avail	n for transport ume and toxicit int, storage, or y generator, I is t I can afford.	by highling of was disposal seve made	ray according to the generated to currently available a good faith e	the degree	Internal I have which minimize m Month
B. Special Handling Instructions and Additional Information WEAR APPROVED ENFETT GEAR B. GENERATOR'S CERTIFICATION: 1 hereby declare th and are classified, packed, marked, and labeled, and in autional government regulations. If I am a large quantity generator, I certify that I have a to be economically practicable and that I have selecte present and future threat to human health and the environment and select the best waste management me printed/Typed Name Transporter 1 Acknowledgement of Receipt of Material Printed/Typed Name Printed/Typed Name Printed/Typed Name	hat the contents of this consignment are in all respects in proper condition in program in place to reduce the volid the practicable method of treatmentronment; OR, if I am a small quantity without that is available to me and that	n for transport ume and toxicit int, storage, or y generator, I is t I can afford.	by highway of was dispose	ray according to the generated to currently available a good faith e	the degree	I have which minimize m
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL " POWSE CENTER 1-800-424-6408; WITHEN CALL 1-800-892-7460

YELLOW: GENERATOR RETAINS 007 00555

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1234 SCOTE CENTRAL, LOS ANCELES, CA	90021		8. 84	ite Generator	70 D		
4. Generator's Phone 22.3) 946-5555			1	ببيا	ليل	ليك	الله المالية
Social Company Home	US EPA ID Number	17.62		neporter's P		18	5148
7. Transporter 2 Company Hame 6.	US EPA ID Number	1:1:1:	E. Sta	ne Transport	er's D		
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8. Designated Facility Name and Site Address 10. 2. C. DEPERIAL PACILITY	US EPA ID Number		1 34	nte Pacility's			
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THE SPHORE LAND, CA 92263 C A	2699933			19) 34			
11. US DOT Description (Including Proper Shipping Name, Hazard Class	s, and 10 Number)	12. Con	Type	13. Tota Quan	tity	14. Unit MI/Vol	. Waste !
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(Conteminated Soil)			L -	h			EPA/Other
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EPA 8700-22 (Rev. 9-88) Previous editions are obsolete.

EPA 8700-22

3. Generator's Name and Mailing Address				A. Sta	te Manife	at Docum	Mul Hall	** ^
COCA COLA BOTTLING COMPAN		_		<u></u>	to Manife	8	862	63
1334 SOUTH CENTRAL, LOS A 4. Generator's Phone 213) 746-5555	ACELES, CA 9002	1		B. 51a	ite Generi	stor's ID		<u> i_</u>
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9. Designated Facility Name and Site Address	10. US	EPA ID Number	 	<u> </u>	te Facilit			
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MESTHORELAND, CA 92281	CADO	00633			19) 1		100	
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J. Additional Descriptions for Materials Listed Abo	ve			K He	ndling Co	des for V	Vastes L	isted Å
16. Special Handling Instructions and Additional Inf		<u> </u>		<u> </u>			<u> </u>	
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18. GENERATOR'S CERTIFICATION: I hereby di and are classified, packed, marked, and labele national government regulations. If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health and	ed, and are in all respects in p I have a program in place to selected the practicable met the environment, OR, if I am i	proper condition for reduce the volume hod of treatment, s a small quantity ge	and toxicit storage, or nerator, I h	by highw y of wast disposal	ay accord le general currently	ling to ap ted to the available	degree	I have
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FAC

Do Not Write Below This Line

Signature

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

EPA 8700—22 (Rev. 9-88) Previous editions are obsolete

Printed/Typed Name

19. Discrepancy Indication Space

Month Day

Year

print or type. (Form designed for see on ellis (12					10116 30	Secremento, Celifo
UNIFORM HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No	Manifest locument No L L 1 661 %	2. Page of	- morma		sheded areas y Federal law.
3 Generator's Name and Mailing Address	 	00	A. State M	Anifest Docum	862	6264
COCA COLA BOTTLING COMPAI 1334 ACKYZE (CENTRAL, LOS I			B. State G	enerator's ID		
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				rter's Phone	`	(\$5 m, y
7. Wransporter 2 Company Name	8. US EPA ID Numbe	er I I I I	<u> </u>	ranaporter's E rter's Phone	·	
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4.	ng meme, reserve deste, and at number,	No.	Туре		W1/Vol	State
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(Contaminated Soil)		— 		- 		
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d.				 . . .	1	State
						EPA/Other
J. Additional Descriptions for Materials Listed Ab	ov•			g Codes for V		sted Above
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EYOROCARBONS LESS THAN 1			G.		d.	
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15. Special Handling Instructions and Additional Is	nformation					
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18. GENERATOR'S CERTIFICATION: 1 hereby (declare that the contents of this consignment	are fully and ac	curately des	cribed above	by proper	shipping name
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Tixit !						<u> A Kira</u>
18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	f Materials Signature					Month Day Yes
19. Discrepancy Indication Space						· · · · · · · · · · · · · · · · · · ·
20 Facility Owner or Operator Certification of rec		nanifest except	as noted in	Nem 19.		
Printed/Typed Name	Signature					Month Day Year

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UNIFORM HAZARDOUS 1. Generator's US EPA ID No.		9°0	2.	<u>ط</u> ک				ne shaded areas by Federal law.
Generator's Name and Mailing Address COCA COLA BOTTLING COMPANY			A St	ate Ma	nifest [ent Num	
1334 SOUTE CENTRAL, LOS ANCELES, CA 90021			B 90	ate Ger	-alera	,	202	£261_
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			a .	andling	Codes	lor W	b.	
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RET "NISE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-862-7860

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EPA 8700-22 (Rev. 9-88) Previous editions are obsolete.

Printed/Typed Name

Do Not Write Below This Line

Signature

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Month Day

Year

19. Discrepancy Indication Space

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YELLOW: GENERATOR RETAINS 007 000567

WASTE MANIFEST Generator's Name and Mailing Address COCA COLA BOTTLING COMPANY 1334 SOUTH CHYTRAL, LOS ANCELES, CA 90021 Generator's Phone 213; 746-5555 Trapaporter 1 Company Name 6. US EPA ID Number	والاامام		a 1			ne shaded areas
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Generator's Phone (213) 746-5555 Trapaporter 1 Company Name 6. US EPA ID Number		<u> </u>		88	363	
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3 Generator's Name and Mailing Address COCA COLA BOTTLING COMPANY				A. St	ate Mar	rifest Docum	63	7117
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5 Transporter 1 Company Name 6 Services; Inc.	US EPA ID Number	1	7			nsporter's I er's Phone	714) - 271 - 1
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9 Designated Facility Name and Site Address 10	US EPA ID Number	16	4	G. St	ate Fac	Hity's ID	1. 1	
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EPA 8700—22 ,Rev. 9-88) Previous editions are obsolete.

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18 Transporter 2 Acknowledgement of Receipt of Materials		
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19. Discrepancy Indication Space		
20 Facility Owner or Operator Certification of receipt of hazard	ous materials covered by this manifest except as noted in item 19	

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19. Discrepancy Indication Space

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

Printed/Typed Name

Month Day Year

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(Rev. 9-88) Previous editions are obsolete

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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

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CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RF

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2NSE CENTER 1.800-424-8802; WITHIN CALKORNA CALL 1800-862-7860

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL P.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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NSE CENTER 1-800-424-8802; WITHEN CALE 1-800-852-7650

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RY

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19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Month Day Year

Printed/Typed Name Signature

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į	†	20. Facility Owner or Operator Certification of receipt of hazardous mater	ials covered by this mani	itest except	as note	od in Rem 19.		
1	Ý	Printed/Typed Name	Signature	·			Month	Day Year
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3. Generator's Name and Mailing Address	מים בן ביי		A 80	te Manifes	. Danie		by Federal let
COCA COLA BOTTLING COMPANY		•		_	R	362	6251
1334 SOUTH CHITALL, LOS ANGELES, CA	90021		B. 9ta	te General	or's D		-~_~
4. Generator's Phone 213 > 745-5535						إماليا	لجلجاها
6 Trignapother 1 Company Name	10 66/5/	75'A >	1	nte Transpo			73-60
7. Transporter 2 Company Name 8.	JUNE EPA ED Humber	P		de Transpo			7 2 . 6 .
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9. Designated Facility Name and Site Address 10.	US EPA 10 Number	111	G. St	te Facility	a D		-
1. 7. DEPERIAL PACILITY			} ·	1 1 1			1111
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4. Generator's Phone 213) 746-5555 5. Transporter 1 Company Nariti 4 6	S LIS EBA ID Number		C. St	ite Transp	orter's I	17	450
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11. US DOT Description (Including Proper Shipping Name, Hezard Cla	ss, and ID Number)	No.	Туре		entity	Unit Wt/Vol	W.
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J. Additional Descriptions for Materials Listed Above		1 1 1	K. Ha	ndling Co	des for V	Vastes L	isted Allow
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:PA 8700—22 Rev. 9-88) Previous editions are obsolete.

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17. Transporter 1 Acknowledgement of Receipt of Materials		_
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18. Transporter 2 Acknowledgement of Receipt of Materials		•
Printed/Typed Name	Signature	Month Day Year
		11111
19. Discrepancy Indication Space		

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Signature Month Day Printed/Typed Name

Do Not Write Below This Line

HS 8022 A (1/88)

18700-22

Printed/Typed Name WE STRANCE FOR CITA	(In Signature) K	-usra-	Month Day Year
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EPA 8700-22 (Rev. 9-88) Previous editions are obsolets.

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UNIFORM HAZARDOUS 1. Generator's US WASTE MANIFEST		ment No.		of 9 10 to	beniupen 10	he shaded areas by Federal law.
3. Generator's Name and Maling Address			A St	ete Manifest Do	105	26302
GOCA COLA BOTYLING COMPANY			9.00	nie Generator's	000	COSUL
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5. Transporter 1 Company Name	8. US EPA ID Number	C C /	C. 8t	ete Transporter	D 9	10266
<u> </u>	# A 00 76 0 73	12130		enaporter's Phot ete Transporter'i		371-7710
7. Transporter 2 Company Name		1 1 1		naporter's Phor		
9. Designated Facility Name and Site Address	10. US EPA ID Number		G. 81	ate Facility's ID	s.	
I. T. DIPERIAL PACILITY	 .	_	H Fo	cility's Phone	11	
\$295 S. GARYET ROAD						
MESTICKELNID, CA \$2281		12. Con	ainers	13: Total Quantity	-3-6(3) Unit	L Waste No.
11. US DOT Description (including Proper Shipping Name, Haze	rd Class, and D resmour)	No.	Туре	Country	W1/Vo	<u> </u>
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J. Additional Descriptions for Materials Listed Above			KH	andling Codes to	Wastes L	isted Above
SCTL 990			•		•	
SYDROCARBONS LESS THAN 19			C.		4	
				•		
15. Special Handling Instructions and Additional Information						
NEAR APPROVED SAFETY GEAR				. •		
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KONAIG WHITI	Jun .					107116
Printed/Typed Name	Signature					Month Day Yes
					<u></u>	11111
19. Discrepancy Indication Space					-;	
				\$	· .	
				<u>. </u>		
20. Facility Owner or Operator Certification of receipt of hazard		Hest excep	as not	ed in Item 19.		
Printed/Typed Name	Signature					Month Day Yes

EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

Appr	oved OMB No. 2050—0039 (Expres 9-30-91) at ar type. (Form designed for see as alite (12-pitch typewriter).						1016 31	Secremento, Califor
T	UNIFORM HAZARDOUS 1. Generator's US EPA DI WASTE MANIFEST 2 2 2 2 2 4	No. Document		_	opo 1	la not r	equired !	ne shaded areas by Federal law.
1	Generator's Name and Mailing Address GOCA GOLA BOTTLING COMPANY			A. Sta	to Manife	el Dogg	862	6306
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	Francocter 1 Company Name 8.	US EPA ID Number	97	_	naporter's		. •	7439
 	Transporter & Company Name	0,1,9,1,9,4,3,0 US EPA D Number	1:12		te Transp			3 7 3 4 0 2
L	111		ш		naporter's			
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١.	1. 2. Imperial pacility 5295 S. Carvey ROAD			H. Fac	Alty's Pho	000	1 1 1 1 1 1	<u></u>
Ľ	MESTHORIFLAND, CA 92281 6 1	BOOCEST	2. Contr		<u>கில</u>		M00	<u> </u>
ļ	1. US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number)	No.	Туре		antity	Unit Wt/Vol	Waste No.
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-	. Additional Descriptions for Materials Listed Above		4	K Ha	ndling Coo	tes for W		sted Above
l	80IL 994			a. ·			b .	•
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L								
[Special Hendling Instructions and Additional Information							
l	HEAR APPROVED SAFETY GEAR							•
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ľ	 GENERATOR'S CERTIFICATION: I hereby declare that the content 	s of this consignment are fully	and ac	curately	describe	d above i	by proper	shipping name
l	and are classified, packed, marked, and labeled, and are in all responsitional government regulations.							
۱	If I am a large quantity generator, I certify that I have a program in pl to be economically practicable and that I have selected the practical present and future threat to human health and the environment, QR,	ble method of treatment, store	ge, or d	lisposal	currently	avaitable	to me w	hich minimizes the
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ŀ	Transporter 2 Acknowledgement of Receipt of Materials	Kand Fig. 30	•		C 60		- 	10141/12/21
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L	9. Discrepancy Indication Space	<u> </u>			·			
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2	0 Facility Owner or Operator Certification of receipt of hazardous mate	rials covered by this manifest	except	as note	d in Item	19.		
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	17. Transporter 1 Acknowledgement of Receipt of Materials				1	
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EPA 8700-22 (Rev 9-88) Previous editions are obsolete.

Printed/Typed Name

Do Not Write Below This Line

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WESTPICKELAND, CA 92281	LPPPPPA	1160		619) 344-	2400	
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16. Special Handling Instructions and Additional Information SEAR APPROVED SAPETY GRAR				<u></u>	1	
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3. Generator's Name and Mailing Address COCA COLA BOSTLING COMPANY						26301			
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	US EPA ID Number	از حر ر	C. State T	anaporter's l	<u>بن</u> ۵ ت				
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7. Transporter 2 Company Name 4.	US EPA 10 Number			rter's Phone		1 1 1			
e, beginning i souly have all one hearts.	US EPA ID Number		G. State F	scility's D					
I. T. DIPERIAL PACILITY 5295 S. GARVET BOAD			H. Facility	s Phone					
	999633			9) 344-		 			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and	d ED Humber)	12. Conta	Type	3. Total Quantity	14. Unit Wt/Vol	Waste			
- CALIFORNIA REGRATED NASES ONLY						State			
(Contaminated Soil)		901	2	991	S T	EPA/Other			
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J. Additional Descriptions for Materials Listed Above			1 110	g Codes for	Westes	isted Above			
15. Special Handling Instructions and Additional Information WEAR APPROVED SAFETY CEAR					<u> </u>				
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1	UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator's US EPA D		lankest umesi No		of 1 is not	required i	ne sheded areas by Federal law.
	3. Generator's Name and Mailing Address COCA COCA SOFTLING CONTAINS			A. Sta	te Manifest Doorn	862	6298
	1334 SOUTE CERTRAL, LOS ARCELES, CA 4. Generator's Phone (21) 746-5555	90021		8. 81	ite Generator's D		29419
	5. Transporter 1 Company Name 8.	US EPA ID Number			te Transporter's S		0193
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	7. Transporter 2 Company Name 8.	US EPA ID Number		E Sta	ite Transporter's E		
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	9. Designated Facility Name and Site Address 10. Y. P. INFRIAL PACILITY	US EPA ID Number		G. 81	ile Facility's ID	1 1 1	
	\$295 S. GARYEY BOND		-		Sty's Phone	1	
	NESTHORELAND, CA 92281 Q A	3666633		Mainers	619) 344-		1
	11. US DOT Description (Including Proper Shipping Name, Hazard Class,	and ID Number)	No.	Туре	13. Total Quantity	14. Unit Wt/Vol	Waste No.
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USE CENTER 1-800-424-8602, WILLENGTON CALL 1-800-862-7860

IN CABE OF AN EMERGENCY OR BPILL, CALL THE NATIONAL HE

I	COCA COLA SOTYLINE COMPANY			ete Manifest Door	500	(0/30
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	SOIL 990 EXTERCOARBONS LESS THAN 13 18. Special Handling Instructions and Additional Information	· · · · · · · · · · · · · · · · · · ·	<u></u>			
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YELLOW: GENERATOR RETAINS 007 000611

Do Not Write Below This Line

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in hem 19

YELLOW: GENERATOR RETAINS 007 000612

Month Day Year

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Rev. 9-88) Previous editions are obsolete.

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Wear approved safety gear		
16.		
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above		
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EPA 8700-22

(Rev. 9-88) Previous editions are obsolete.

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UNIFORM HAZARDOUS 1. Generator's US EPA D No. WASTE MANIFEST CAPPBZALLABPSOP	Manifest Fund No		age 1 of 1	- 1			e shaded areas by Federal law.
3 Generator's Name and Mailing Address COCA COLA BOTTLING COMPAIN		A. Sta	te Men	itest D		26?	6281
1334 SOUTH CENTRAL, LOS ANGELES, CA 90021 4 Generator's Phone 213) 746-5555			A I	9	3 4	92	9439
6-Tenangerier Company Name US EPA ID Number	7571	C. Sta	to Tran	aporte	r'a ID	71	4300
7. Transporter 2 Company Name 8. US EPA ID Number	10,101	E. Sta	le Tran	aporte	r's ID	<u> </u>	2110
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11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Cont		13.	Total Quanti	ity	14. Unit Wt/Vol	I. Waste No.
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3 Generator's Name and Mailing Address COCA COLA BOTTLING COMPANY 1334 SOUTH CENTRAL, LOS ANGELES, CA 90021 4 Generator's Phone 213). 746-5555		A. St.	ate Gen	erator's	Б	2627
5 Transporter 1 Company Name / 6. US EPA ID Number		C. Si	ate Trai	aporter'	107	0121914
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19. Discrepancy Indication Space				

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

DHS 8022 A (1/88)

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(Rev. 9-88) Previous editions are obsolete

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Yes

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good taith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

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3	Generator's Name and Mailing Address COCA COLA BOTTLING COMPANY			^ *"	ite mannesi Doc	386.	25292
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_	Generator's Phone (213) 746-5555						29419
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20 Facility Owner or Operator Certification of receipt o	of hazardous materials covered by this manifest except as noted in item	19
Printed/Typed Name	Signature	Month Day Year

DHS 8022 A (1/88) EPA 8700-22

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e of California—Health and Welfare Agency 1 Approved OMB No. 2050—0039 (Expires 9-30-91) as print or type (Form designed for use on elite (12-pitch type	purker).					artment of Health Ser ubstances Control De Sacramento, Calif
UNIFORM HAZARDOUS 1. Generator WASTE MANIFEST CAPP	A LIC COA MANA MA	pont % 7		of 2 is no	required	he shaded areas by Faderal law.
3. Generator's Name and Mailing Address COCA COLA BOTTLING CONTAINT 1334 SOUTE CIDITAL, LOS ANGELE 4. Generator's Phone213) 746-5555	es, ca 90021		B. 8/1	e Manifest Doc		6289 1
E. Zenaporter 1 Company Name CCOTOLIEDIS J (KERNAL DIGT		1, 8,3	D. Tran	le Transporter's haporter's Phon	,7/1/	12 615
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Designated Facility Name and Site Address 1. T. IMPERIAL PACILITY	10. US EPA ID Number		لـــا	ie Facility's ID	11.	
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16. GENERATOR'S CERTIFICATION: I hereby declare the and are classified, packed, marked, and labeled, and a sational government regulations. If I am a large quantity generator, I certify that I have a	are in all respects in proper condition to	r transport	by highw	ay according to	applicable	international and
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DMS 8022 A (1/88) EPA 8700—22 (Rev. 9-88) Previous editions are obsolete.

15. Special Handling Instructions and Additional Information

WEAR APPROVED SAFETY GEAR

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and sational government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; QR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

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18 Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year Signature

19. Discrepancy Indication Space

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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

Printed/Typed Name Signature

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Do Not Write Below This Line

Month Day Year

Month Day Year

3	Generator's Name and Mailing Address			 \$	A. Sta	te Mani		ument Nu	
١	COCA COLA BOTTLING CHPANY						rator's E		26287
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YELLOW: GENERATOR RETAINS

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EPA 8700—22 (Rev. 9-88) Previous editions are obsolets.

YELLOW: GENERATOR RETAINS

Sacramento, California

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YELLOW: GENERATOR RETAINS

UNIFORM HAZARDOUS WASTE MANIFEST A D 9		D 1712		of 1			by Federa
3. Generator's Name and Mailing Address		•	A . Sta	ite Man	fest Docu	Bridge C B	2628
COCA COLA BOTTLDIG COMPANY	PG . C4 B0021				rator's D	•	
1334 SOUTH CENTRAL, LOS ANGEL	ES/ CA FOUL			A	193	902	194
5. Transporter 1 Company Name	6. US EPA 10 Numbe	1			sporter's		
102 100		اثلل	↓		r's Phone		/
7. Transporter 2 Company Name	8. US EPA ID Numbe	, , , ,			aportar's (
Designated Facility Name and Site Address	10. US EPA ID Numbe	<u> </u>			Nay's ID		
I. T. DEPERIAL PACILITY			ł	1 1	111	1.1	1 1 1
5295 8. GARVEY ROAD			H. Fac	cility's F	hone		
MESTICORILAND, CA 92281	C1000083	1154			344-0	_	T
11. US DOT Description (Including Proper Shipping Name,	Hezard Class, and ID Number)	12. Con			Total Quantity	Unit	, w
		No.	Туре			Wt/Vo	State
CALIFORNIA REGULATED WASTE ON	LY .	- {	1	}		1	EPA/Oth
(Conteminated Soil)		661		h h	h h k		EPA/OII
D .						T	State
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J. Additional Descriptions for Materials Listed Above SOIL 998 EYUDOCARBONS LESS THAN 18			K. Ha a.	indling (Codes for	Westes I	
SCIL 99% EYDROCARBONS LESS THAN 1%			a .	indling (Codes for	b.	
SOIL 994 EXTROCARBORS LESS THAN 18 15. Special Handling Instructions and Additional Informatio WEAR APPROVED SAFETY GEAR	n		a .	indling (Codes for	b.	
SOIL 994 EXUBOCARBONS LESS THAN 18 15. Special Handling Instructions and Additional Information	hat the contents of this consignment a are in all respects in proper condition a program in place to reduce the volu of the practicable method of treatmen vironment; OR, if I am a small quantity	for transport ime and toxicit nt, storage, or generator, i f	ccurately by highway of was disposal	y descrively accuste gene	bed above ording to a created to the total state of	b. d. by propapplicable to me	er shipping
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EPA 8700—22 (Rev. 9-88) Previous editions are obsolete

YELLOW: GENERATOR RETAINS

APPENDIX D

REPORT

TRUESDAIL LABORATORIES, INC.

HEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714. . 730-6239 AREA CODE 213 . 225-1564

TRUELABS

Georemediation

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

DATE

June 26, 1989

RECEIVED June 21, 1989

SAMPLE

CLIENT

4 Soil samples

Project: Coca-Cola, Torrance LABORATORY NO.

33359-1 2,5,6

INVESTIGATION

Total Petroleum Hydrocarbons (418.1)

Sample I.D.

RESULTS Concentration mg/kg

E-1,2'

E-21.31

E-5,2'

E-4,4'

2,760 -

1,340 ~

279

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Grég W. Everett

Project Manager

REPORT

TRUESDAIL LABORATORIES, INC.

EMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT

AREA CODE 714 . 730-6239 AREA CODE 213 . 225 - 1564 TRUELABS

Georemediation

14 Hughes, Suite Bl01

Irvine, CA 92718

Gary Carlin Attention:

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

33359-1

SAMPLE B-1,2'

INVESTIGATION

CLIENT

Base Neutral Acid Extractables by GC/MS (EPA 8270)

•	RESUL	TS	
Constituent	Dete	ximate ction mit*	Concentration** Micrograms/Kilogram
Phenol	1.98	mg/kg	ND
bis(2-Chloroethyl) ether	1.98	mg/kg	ND
2-Chlorophenol	1.98	mg/kg	ND
1,3-Dichlorobenzene	1.98	mg/kg	ND
1,4-Dichlorobenzene	1.98	mg/kg	ND
Benzyl Alcohol	3.90	mg/kg	ND
1,2-Dichlorobenzene	1.98	mg/kg	ND
2-Methylphenol	1.98	mg/kg	ND
bis(2-Chloroisopropyl) ether	1.98	mg/kg	ND
4-Methylphenol	1.98	mg/kg	ND
N-Nitroso-Di-N-propylamine	1.98	mg/kg	ND
Hexachloroethane	1.98	mg/kg	ND
Nitrobenzene	1.98	mg/kg	ND
Isophorone	1.98	mg/kg	ND
2-Nitrophenol	1.98	mg/kg	ND
2,4-Dimethylphenol	1.98	mg/kg	ND
Benzoic Acid	9.90	mg/kg	ND
bis(2-Chloroethyoxy)methane	1.98	mg/kg	ND
2,4-Dichlorophenol	1.98	mg/kg	ND
1,2,4-Trichlorobenzene	1.98	mg/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

This report applies only to the sample; or samples investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories

TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-1

June 26, 1989

Page two

Constituent	Dete	ximate ection mit*	Concentration** Micrograms/Kilogram
Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethyl phthalate Acenaphthylene 3-Nitroaniline Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene 2,6-Dinitrotoluene Diethylphthalate 4-Chlorophenyl phenyl ether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenyl phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene	1.98 3.90 1.98 3.90 1.98 1.98 1.98 1.98 1.98 9.90 1.98 1.98 1.98 1.98 1.98 1.98 1.98 1.98	mit* mg/kg mg/kg mg/kkg	Micrograms/Rilogram ND ND ND ND ND ND ND ND ND ND ND ND ND N
Anthracene Di-n-butylphthalate Fluoranthene Pyrene Butyl benzyl phthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene bis(2-ethylhexyl)phthalate	1.98 1.98 1.98 1.98 1.98 3.90 1.98	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	ND ND ND ND ND ND ND ND ND ND

[◆] Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

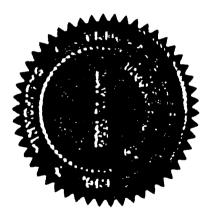
Georemediation

Laboratory Number: 33359-1 June 26, 1989

Page three

Constituent	Dete	ection	Concentration** Micrograms/Kilogram
Chrysene	1.98	mg/kg	ND
Di-n-octyl phthalate	1.98	mg/kg	ND
Benzo(b)fluoranthene	1.98	mg/kg	ND
Benzo(k)fluoranthene	1.98	mg/kg	ND
Benzo(a)pyrene	1.98	mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98	mg/kg	ND
Dibenz(a,h)anthracene	1.98	mg/kg	ND
Benzo(g,h,i)perylene	1.98	mg/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ND = Not detected, below detection limit.



Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Project Manager

REPORT

TRUESDAIL LABORATORIES, INC.

LHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

33359-2

Georemediation

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE B-2,3'

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Dete	ection mit*	Concentration** Micrograms/Kilogram
Phenol	1.98	mg/kg	ND
bis(2-Chloroethyl) ether	1.98	mg/kg	ND
2-Chlorophenol	1.98	mg/kg	ND
1,3-Dichlorobenzene	1.98	mg/kg	ND
1,4-Dichlorobenzene	1.98	mg/kg	ND
Benzyl Alcohol	3.90	mg/kg	ND
1,2-Dichlorobenzene	1.98	mg/kg	ND
2-Methylphenol	1.98		ND
bis(2-Chloroisopropyl) ether	1.98	mg/kg	ND
4-Methylphenol	1.98		ND
N-Nitroso-Di-N-propylamine	1.98	mg/kg	ND
Hexachloroethane	1.98	mg/kg	ND
Nitrobenzene	1.98	mg/kg	ND
Isophorone	1.98		ND
2-Nitrophenol	1.98	mg/kg	ND
2,4-Dimethylphenol	1.98	mg/kg	ND
Benzoic Acid	9.90	mg/kg	N D
<pre>bis(2-Chloroethyoxy)methane</pre>	1.98	mg/kg	ND
2,4-Dichlorophenol	1.98	mg/kg	ND
1,2,4-Trichlorobenzene	1.98	mg/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-2

June 26, 1989 Page two

ration** s/Kilogram
ND ND ND ND ND
ND ND ND ND ND ND ND
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^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-2

June 26, 1989 Page three

Constituent	Approximate Detection Limit*	Concentration** Micrograms/Rilogram
Chrysene	1.98 mg/kg	ND
Di-n-octyl phthalate	1.98 mg/kg	ND
Benzo(b)fluoranthene	1.98 mg/kg	ND
Benzo(k)fluoranthene	1.98 mg/kg	ND
Benzo(a)pyrene	1.98 mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98 mg/kg	ND
Dibenz(a,h)anthracene	1.98 mg/kg	ND .
Benzo(g,h,i)perylene	1.98 mg/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Greg W. Everett Project Manager

REPORT

TRUESDAIL LABORATORIES, INC.

EMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

June 26, 1989

RECEIVED June 21, 1989

LABORATORY NO.

33359~5

Georemediation

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE P_S

CLIENT

B-5,2'

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

	RESULTS		
Constituent	Approxi Detect Limi	ion	Concentration** Micrograms/Kilogram
Phenol	1.98 m	g/kg	ND
bis(2-Chloroethyl) ether	1.98 m	g/kg	ND
2-Chlorophenol	1.98 m	g/kg	ND
1,3-Dichlorobenzene	1.98 m	g/kg	ND
1,4-Dichlorobenzene	1.98 m	g/kg	ND
Benzyl Alcohol	3.90 m	g/kg	ND
1,2-Dichlorobenzene	1.98 m	g/kg	ND .
2-Methylphenol	1.98 m	g/kg	ND
bis(2-Chloroisopropyl) ether	1.98 mg	g/kg	ND
4-Methylphenol	1.98 m	g/kg	ND
N-Nitroso-Di-N-propylamine	1.98 m	g/kg	ND
Hexachloroethane	1.98 m	g/kg	ND
Nitrobenzene	1.98 mg	g/kg	ND
Isophorone	1.98 mg	g/kg	ND
2-Nitrophenol		g/kg	ND
2,4-Dimethylphenol		g/kg	ND
Benzoic Acid	9.90 mg	g/kg	ND
bis(2-Chloroethyoxy)methane		g/kg	ND
2,4-Dichlorophenol		g/kg	ND
1,2,4-Trichlorobenzene	1.98 mg	g/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

This report applies only to the sample, or samples investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-5

June 26, 1989

Page two

Constituent	Dete	ection mit*	Concentration** Micrograms/Kilogram
Naphthalene	1.98	mg/kg	ND
4-Chloroaniline	3.90	mg/kg	ND
Hexachlorobutadiene	1.98	mg/kg	ND
4-Chloro-3-methylphenol	3.90	mg/kg	ND
2-Methylnaphthalene	1.98	mg/kg	ND
Hexachlorocyclopentadiene	1.98	mg/kg	ND
2,4,6-Trichlorophenol	1.98	mg/kg	ND
2,4,5-Trichlorophenol	1.98	mg/kg	ND
2-Chloronaphthalene	1.98	mg/kg	ND
2-Nitroaniline	9.90	mg/kg	ND
Dimethyl phthalate	1.98	mg/kg	ND
Acenaphthylene	1.98	mg/kg	ND
3-Nitroaniline	9.90	mg/kg	ND
Acenaphthene	1.98	mg/kg	ND
2,4-Dinitrophenol	9.90	mg/kg	ND
4-Nitrophenol	9.90	mg/kg	ND
Dibenzofuran	1.98	mg/kg	ND
2,4-Dinitrotoluene	1.98	mg/kg	ND
2,6-Dinitrotoluene	1.98	mg/kg	ND
Diethylphthalate	1.98	mg/kg	N D
4-Chlorophenyl phenyl ether	1.98	mg/kg	ND
Fluorene	1.98	mg/kg	ND
4-Nitroaniline	9.90	mg/kg	ND
4,6-Dinitro-2-methylphenol	9.90	mg/kg	ND
N-Nitrosodiphenylamine	1.98	mg/kg	ND
4-Bromophenyl phenyl ether	1.98	mg/kg	ND
Hexachlorobenzene	1.98	mg/kg	ND
Pentachlorophenol	9.90	mg/kg	ND
Phenanthrene	1.98	mg/kg	ND
Anthracene	1.98	mg/kg	ND
Di-n-butylphthalate	1.98	mg/kg	ND
Fluoranthene	1.98	mg/kg	ND
Pyrene	1.98	mg/kg	ND
Butyl benzyl phthalate	1.98	mg/kg	ND
3,3'-Dichlorobenzidine	3.90	mg/kg	ND
Benzo(a)anthracene	1.98	mg/kg	ND
bis(2-ethylhexyl)phthalate	1.98	mg/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-5

June 26, 1989 Page three

Constituent	Dete	ximate ction it*	Concentration** Micrograms/Kilogram
Chrysene	1.98	mg/kg	ND
Di-n-octyl phthalate	1.98	mg/kg	ND
Benzo(b)fluoranthene	1.98	mg/kg	ND
Benzo(k)fluoranthene	1.98	mg/kg	ND
Benzo(a)pyrene	1.98	mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98	mg/kg	ND
Dibenz(a,h)anthracene	1.98	mg/kg	. ND
Benzo(g,h,i)perylene	1.98	mg/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Greg W. Everett Project Manager

007 000652

REPORT

TRUESDAIL LABORATORIES, INC.

LEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

14201 TUSTIN, CALIFORNIA 926BD AREA CODE 714 • 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

Georemediation

14 Hughes, Suite Bl01

92718 Irvine, CA

Gary Carlin Attention:

DATE

June 26, 1989

RECEIVED June 21, 1989

33359-6

SAMPLE B-4,4' LABORATORY NO.

INVESTIGATION

CLIENT

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*	Concentration** Micrograms/Kilogram
Phenol	1.98 mg/kg	ND
bis(2-Chloroethyl) ether	1.98 mg/kg	ND
2-Chlorophenol	1.98 mg/kg	ND
1,3-Dichlorobenzene	1.98 mg/kg	ND
1,4-Dichlorobenzene	1.98 mg/kg	ND
Benzyl Alcohol	3.90 mg/kg	ND
1,2-Dichlorobenzene	3.90 mg/kg	ND
2-Methylphenol	3.90 mg/kg	ND
bis(2-Chloroisopropyl) ether	3.90 mg/kg	ND
4-Methylphenol	3.90 mg/kg	ND
N-Nitroso-Di-N-propylamine	3.90 mg/kg	ND
Hexachloroethane	3.90 mg/kg	ND
Nitrobenzene	3.90 mg/kg	ND
Isophorone	3.90 mg/kg	ND
2-Nitrophenol	3.90 mg/kg	ND
2,4-Dimethylphenol	3.90 mg/kg	ND
Benzoic Acid	9.90 mg/kg	ND
bis(2-Chloroethyoxy)methane	1.98 mg/kg	ND
2,4-Dichlorophenol	$1.98 ext{ mg/kg}$	ND
1,2,4-Trichlorobenzene	1.98 mg/kg	ND

- Detection limits may vary with the type of sample and with the concentration of other species present.
- ND = Not detected, below detection limit.

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TRUESDAIL LABORATORIES, INC.

Georemediation

Laboratory Number: 33359-6 June 26, 1989

Page two

Constituent	Dete	ximate ction mit*	Concentration** Micrograms/Kilogram
	1.98	mg/kg	ND
Naphthalene	3.90	• . •	ND
4-Chloroaniline	1.98	mg/kg	ND
Hexachlorobutadiene		mg/kg	
4-Chloro-3-methylphenol	3.90	mg/kg	ND
2-Methylnaphthalene	1.98	mg/kg	ND
Hexachlorocyclopentadiene	1.98	mg/kg	ND
2,4,6-Trichlorophenol	1.98	mg/kg	ND
2,4,5-Trichlorophenol	1.98	mg/kg	ND
2-Chloronaphthalene	1.98	mg/kg	ND
2-Nitroaniline	9.90	mg/kg	N D
Dimethyl phthalate	1.98	mg/kg	ND
Acenaphthylene	1.98	mg/kg	ND
3-Nitroaniline	9.90	mg/kg	N D
Acenaphthene	1.98	mg/kg	N D
2,4-Dinitrophenol	9.90	mg/kg	ND
4-Nitrophenol	9.90	mg/kg	ND ND
Dibenzofuran	1.98	mg/kg	ND
2,4-Dinitrotoluene	1.98	mg/kg	ND
2,6-Dinitrotoluene	1.98	mg/kg	ND
Diethylphthalate	1.98	mg/kg	ND
4-Chlorophenyl phenyl ether	1.98	mg/kg	ND
Fluorene	1.98	mg/kg	ND
4-Nitroaniline	9.90	mg/kg	ND
4,6-Dinitro-2-methylphenol	9.90	mg/kg	ND
	1.98	mg/kg	ND
N-Nitrosodiphenylamine	1.98	mg/kg	ND
4-Bromophenyl phenyl ether	1.98	mg/kg	ND
Hexachlorobenzene	9.90		ND
Pentachlorophenol	1.98	mg/kg	ND ND
Phenanthrene		mg/kg	ND ND
Anthracene	1.98	mg/kg	
Di-n-butylphthalate	1.98	mg/kg	ND
Fluoranthene	1.98	mg/kg	ND
Pyrene	1.98	mg/kg	ND
Butyl benzyl phthalate	1.98	mg/kg	ND
3,3'-Dichlorobenzidine	3.90	mg/kg	ND
Benzo(a)anthracene	1.98	mg/kg	ND
<pre>bis(2-ethylhexyl)phthalate</pre>	1.98	mg/kg	ND

- ♣ Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Georemediation

Laboratory Number: June 26, 1989 33359-5

Page three

Constituent	Dete	ximate ction it*	Concentration** Micrograms/Kilogram
Chrysene	1.98	mg/kg	ND
Di-n-octyl phthalate	1.98	mg/kg	. ND
Benzo(b)fluoranthene	1.98	mg/kg	ND
Benzo(k)fluoranthene	1.98	mg/kg	ND
Benzo(a)pyrene	1.98	mg/kg	ND
Indeno(1,2,3-cd)pyrene	1.98	mg/kg	ND
Dibenz(a,h)anthracene	1.98	mg/kg	.ND
Benzo(g,h,i)perylene	1.98	mg/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Project Manager

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

Georemediation

14 Hughes, Suite B 101

Irvine, California 92718 Attention: Gary Carlin

SAMPLE

CLIENT

Soil Sample

Project: Near G-3, 6/05/89, 2:25 PM

Stoney-Miller, Consultants

INVESTIGATION

EPA 418.1 for Total Petroleum Hydrocarbons

RESULTS

Parameter

CONCENTRATION, mg/L

Total Petroleum
Hydrocarbons (418.1)

60.4

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

June 16, 1989

RECEIVED June 6, 1989

LABORATORY NO 33214

DATE

Gregory W. Everett, Project Manager

Watter & Waste Laboratory

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS

GeoRemediation
14 Hughes, Suite B-101

Irvine, California 92718

Attention: Gary Carlin

SAMPLE

CLIENT

Soil Near G-3

Project: Coca-Cola, Torrance,

Stoney-Miller Consultants

14201 FRANKLIN AVENUE TUBTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE Ju

June 16, 1989

RECEIVED

June 6, 1989

LABORATORY NO.

33214

INVESTIGATION

Purgeable Organics (Volatiles) by EPA 8240 Gas Chromatography/Mass Spectrometry

RESULTS

Constituent	Detection Limit* (mg/kg)	Concentration** Milligrams/Kilogram
Acetone	0.300	ND
Benzene	0.300	ND
Bromodichloromethane	0.300	ND
Bromoform	0.300	ND
Bromomethane	0.300	ND .
2-Butanone	0.300	ND
Carbon Disulfide	0.300	ND
Carbon Tetrachloride	0.300	ND
Chlorobenzene	0.300	ND
Chloroethane	0.300	ND
2-Chlorethyvinyl ether	0.300	ND
Chloroform	0.300	ND
Chloromethane	0.300	ND
Dibromochloromethane	0.300	ND
1,1-Dichloroethane	0.300	ND
1,2-Dichloroethane	0.300	ND
1,1-Dichloroethene	0.300	$\mathbf{N} \mathbf{D}$
trans-1,2-Dichloroethene	0.300	ND
1,2-Dichloropropane	0.300	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

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^{**} ND = Not detected, below detection limit.

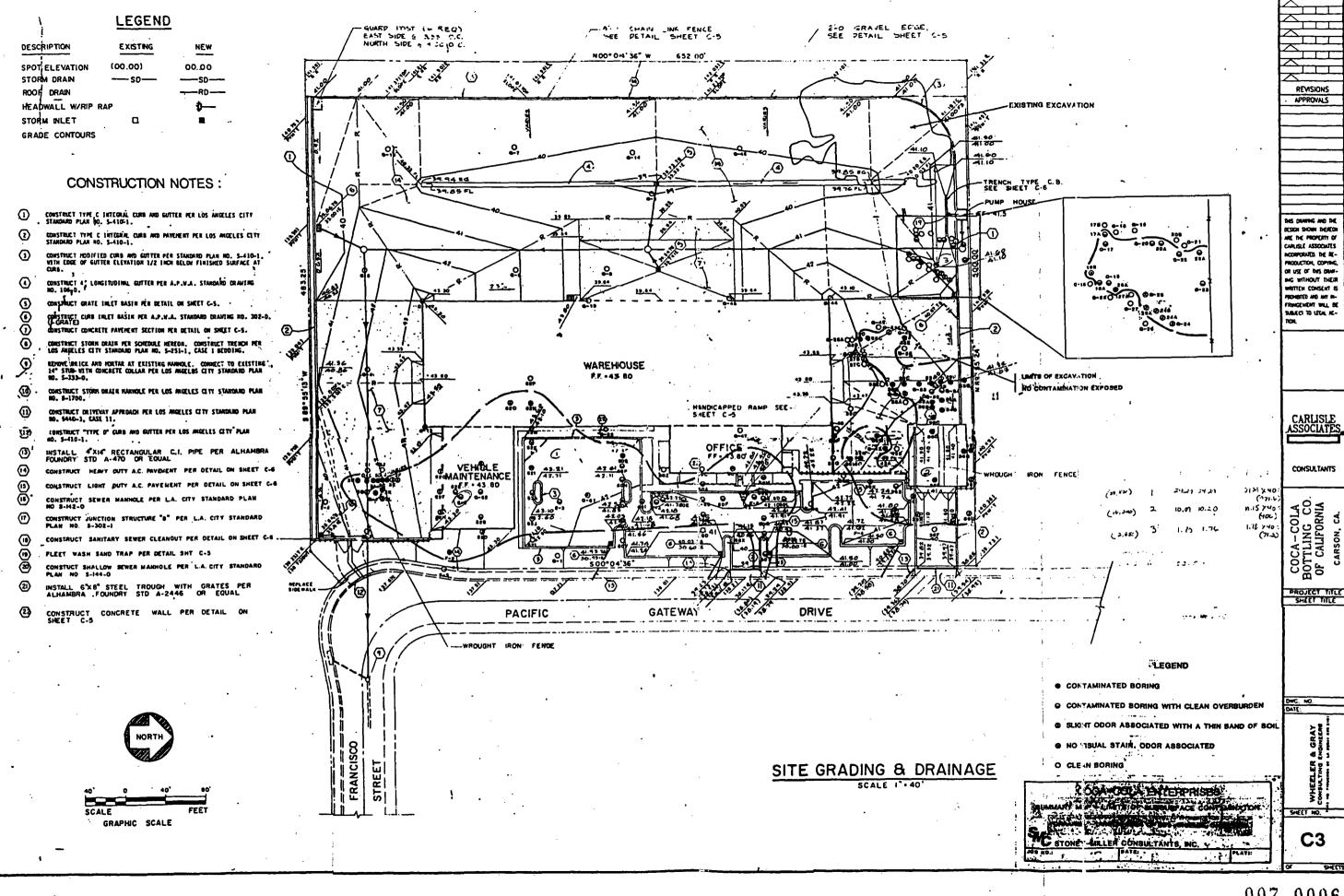
Constituent	Detection Limit* (mg/kg)	Concentration** Milligrams/Kilogram
cis-1,3-Dichloropropene	0.300	ND
trans-1,3-Dichloropropene	0.300	ND
Ethyl Benzene	0.300	ND
2-Hexanone	0.300	ND
4-Methyl-2-pentanone	0.300	ND
Methylene Chloride	0.300	- ND
Styrene	0.300	ND
1,1,2,2-Tetrachloroethane	0.300	ND
Tetrachloroethene	0.300	ND
Toluene	0.300	ND
1.1.1-Trichloroethane	0.300	ND
1,1,2-Trichloroethane	0.300	ND
Trichloroethene	0.300	ND
Vinyl Acetate	0.300	ND
Vinyl Chloride	0.300	ND
Xylenes	0.300	ND

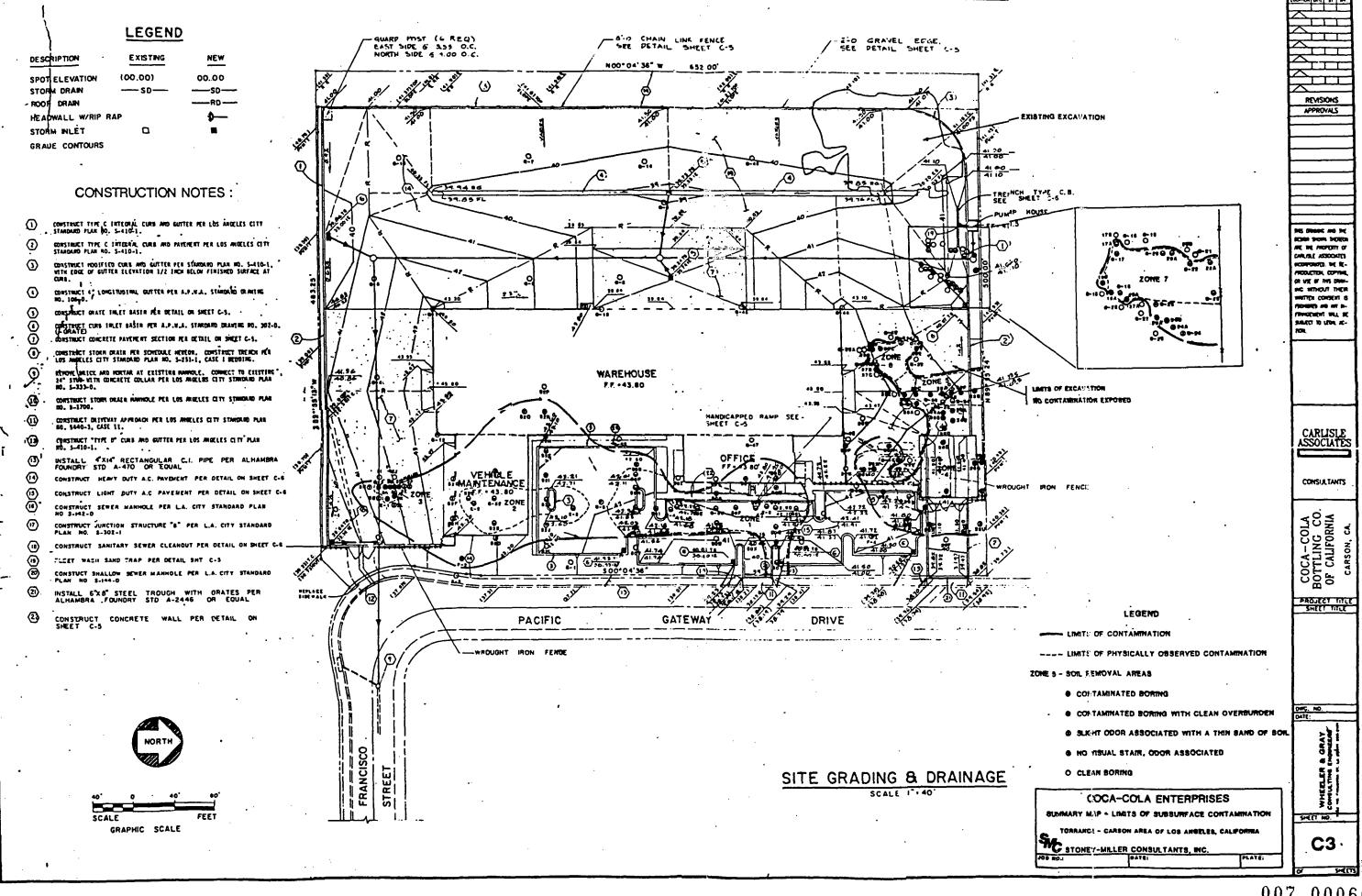
^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Gregory W. Everett Project Manager

^{**} ND = Not detected, below detection limit.





Coca-Cola Torrence CA JOB NO. 2179J286

Area #	1st Reading	2nd Reading	Average	x 1600 = Area Sq. Feet
1	24.29	24.29	24.29	38,864
2	10.09	10.20	10.15	16,240
3	1.80	1.76	1.78	2,848

average thehress E. 3.7 feet (Vax 2566)

To to (Ex. 57.90)

A see (Co.46 21)

The second seco

SUMMARY OF REMAINING CONTAMINATED SOIL

		2		
ZONE		AREA(ft)	THICKNESS(ft)	CU YDS
1	CONTAMINATED OVERBURDEN	10,806	1.5	600 800
2	CONTAMINATED OVERBURDEN	4,110.7	2.0	300 304
3	CONTAMINATED OVERBURDEN	664.6	0.5	12 12
4	CONTAMINATED OVERBURDEN	8,246	2.0	611 0
5	CONTAMINATED OVERBURDEN	2,732.3	5.0	506 0
6	CONTAMINATED OVERBURDEN	1,378.4	2.0	102 0
7	CONTAMINATED OVERBURDEN	1,722.7	13.5	860 0
TOTAL				
	CONTAMINATED OVERBURDEN		,	2991 1116
UNDER	OLD BUILDING			
	CONTAMINATED OVERBURDEN			900 1100

RESULTS OF SAMPLING AND ANALYSIS COCA-COLA ENTERPRISES 19875 PACIFIC GATEWAY DRIVE CARSON, CALIFORNIA

JOB NO. 89007



U.S. Technical Environmental Consulting, Inc.

RESULTS OF SAMPLING AND ANALYSIS COCA-COLA ENTERPRISES 19875 PACIFIC GATEWAY DRIVE CARSON, CALIFORNIA

JOB NO. 89007



U.S. Technical Environmental Consulting, Inc.

March 1, 1990

Mr. Raul Ramirez Coca-Cola Enterprises - West 1334 South Central Avenue Los Angeles, California 90021

RE: 19875 PACIFIC GATEWAY DRIVE, CARSON, CALIFORNIA, RESULTS OF SAMPLING AND ANALYSIS. JOB NO. 89007.

Dear Raul:

Attached please find copies of the results of chemical analyses performed on four composite soil samples collected from the subject site on January 16, 1990. The samples were collected from the contaminated soil that is currently stockpiled on the site.

The sampling and analysis work performed was as outlined in our letter to you of January 17, 1990.

In summary, the analyses performed were of parameters that define a material as hazardous under Title 22 of the California Administrative Code. The results of chemical analyses of the samples analyzed show that there were no parameters exceeded.

With your approval, the results of the sampling and analyses will be submitted to both the Department of Heath Services and Regional Water Quality Control Board.

Please contact us if you have any questions or comments at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Peter A. Beaver

Manager Remediation Services

Steven M. Myers

Steven M. Myers, R.G.

President

/weh



ATI I.D. 001201

February 7, 1990

US Technical Environmental Consulting, Inc. 1414 W. Broadway Road, Suite #150 Tempe, Arizona 85282

TORRONCI 89007

Project Name: Torrance

Project No.: 89007

P.O. No.: P10590

Attention: Pete Beaver

On January 17, 1990, Analytical Technologies, Inc. received four soil samples for analyses. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. Please see the attached sheet for the sample cross reference.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey Senior Project Manager

ML:em

Richard M. Amano Laboratory Manager





ANALYTICAL SCHEDULE

CLIENT: US TECHNICAL ENV. CONSULTING PROJECT NO.: 89007

PROJECT NAME: TORRANCE

	TECHNIQUE	REFERENCE/METHOD
FLUORIDE PETROLEUM HYDROCARBONS	ELECTRODE	EPA 340.2 EPA 418.1 (MODIFIED)
MOLYBDENUM NICKEL LEAD ANTIMONY	ICAP ICAP ICAP ICAP ICAP ICAP ICAP AA/COLD VAPOR ICAP ICAP ICAP ICAP ICAP AA/GF AA/GF	EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 7740 EPA 7841 EPA 6010
HALOGENATED VOLATILE ORGANICS	GC/HALL	EPA 8010
ORGANOCHLORINE PESTICIDES AND PCBs	GC/ECD	EPA 8080
CHLORINATED HERBICIDES	GC/ECD	EPA 8150
PENTACHLOROPHENOL	GC/ECD	EPA 8040
FISH TOXICITY	-	*

^{*} Fish toxicity was analyzed by ERC Bioassay Laboratory of San Diego, California.

Analytical Technologies, Inc.: US TECHNICAL ENV. CONSULTING

DATE RECEIVED : 01/17/90

: 89007

PROJECT NAME : TORRANCE

REPORT DATE : 02/07/90

ATI I.D. : 001201

ATI =	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	COMP.S1	SOIL	01/16/90
02	COMP.S2	SOIL	01/16/90
03	COMP.S3	SOIL	01/16/90
04	COMP.S4	SOIL	01/16/90
05	HIGHEST TPH FROM 01-04 (COMP.S2)	SOIL	01/16/90
06	2ND HIGHEST TPH FROM 01-04 (COMP.S1)	SOIL	01/16/90

---- TOTALS ----

MATRIX # SAMPLES 6 SOIL

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



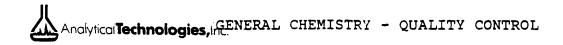
GENERAL CHEMISTRY RESULTS

ATI I.D. : 001201

: US TECHNICAL ENV. CONSULTING CLIENT DATE RECEIVED : 01/17/90

PROJECT # : 89007
PROJECT NAME : TORRANCE REPORT DATE : 02/07/90

						,,
PARAMETER	UNITS	01	02	03	04	·
FLUORIDE PETROLEUM HYDROCARBONS, IR	MG/KG MG/KG	8 200	11 270	10 120	8 100	



CLIENT : US TECHNICAL ENV. CONSULTING PROJECT # : 89007

PROJECT NAME : TORRANCE ATI I.D. : 001201

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
FLUORIDE PETROLEUM HYDROCARBONS		00115201 00118902	6	6 2		51 140	48 130	94 106

% Recovery = (Spike Sample Result - Sample Result) Spike Concentration RPD (Relative Percent Difference) = (Sample Result - Duplicate Result) Average Result



DATE RECEIVED : 01/17/90

CLIENT : US TECHNICAL ENV. CONSULTING PROJECT # : 89007
PROJECT NAME : TORRANCE **REPORT DATE** : 02/07/90

					. 02/0//30
PARAMETER	UNITS	01	02	03	04
SILVER	MG/KG	<1.0	<1.0	<1.0	<1.0
ARSENIC	MG/KG	40.3	27.8	32.0	31.8
BARIUM	MG/KG	143	152	151	156
BERYLLIUM	MG/KG	0.6	0.5	0.6	0.6
CADMIUM	MG/KG	<0.5	<0.5	<0.5	<0.5
COBALT	MG/KG	10.0	10.3	10.5	10.7
CHROMIUM	MG/KG	28.2	21.5	22.0	24.2
COPPER	MG/KG	51.5	32.3	27.8	28.7
MERCURY	MG/KG	<0.25	<0.25	<0.25	<0.25
MOLYBDENUM	MG/KG	<1.0	<1.0	<1.0	<1.0
NICKEL	MG/KG	16.5	15.8	16.4	17.2
LEAD	MG/KG	24.4	14.8	14.4	17.5
ANTIMONY	MG/KG	<3.0	<3.0	<3.0	<3.0
SELENIUM	MG/KG	<1.0	<1.0	<1.0	<1.0
THALLIUM	MG/KG	<1.0	<1.0	<1.0	<1.0
VANADIUM	MG/KG	41.0	38.7	39.4	42.2
ZINC	MG/KG	73.4	56.1	56.8	59.3

METALS - QUALITY CONTROL

CLIENT : US TECHNICAL ENV. CONSULTING

PROJECT # : 89007
PROJECT NAME : TORRANCE

ATI I.D. : 001201

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
SILVER ARSENIC	MG/KG MG/KG	00120101 00119204	<1.0 18.6	<1.0 24.2	0 26	44.5 49.4	48.9 48.9	91 63
BARIUM	MG/KG	00120101	143	144	1	256	97.8	115
BERYLLIUM CADMIUM	MG/KG MG/KG	00120101		0.6 <0.5	0	46.9 44.6	48.9 48.9	95 91
COBALT CHROMIUM	MG/KG MG/KG	00120101 00120101		10.6 26.0	6 8	102 72.7	97.8 48.9	94 93
COPPER	MG/KG	00120101	51.5	41.6	21	87.4	48.9	84
MERCURY MOLYBDENUM	MG/KG MG/KG	00119208 00120101		<0.25 <1.0	0	2.6 84.4	2.3 97.8	113 86
NICKEL LEAD	MG/KG MG/KG	00120101 00120101	-	16.1 22.0	2 10	61.7 63.2	48.9 48.9	93 82
ANTIMONY	MG/KG	00120101	<3.0	<3.0	0	20.2	48.9	41
SELENIUM THALLIUM	MG/KG MG/KG	00119204 00119204	<1.0	<1.0 <1.0	0	19.6 38.7	29.3 48.9	67 79
VANADIUM ZINC	MG/KG MG/KG	00120101 00120101		41.5 59.4	1 21	135 112	97.8 48.9	96 93



GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 00120101

TEST : EPA 3010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT # : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S1 DATE ANALYZED : 01/20/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR : 1

	DILUTION FACTOR; 1
COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM .	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	
BROMOCHLOROMETHANE (%)	105
TRIFLUOROTOLUENE (%)	102
	

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

DILUTION FACTOR: 1

	DILUTION FACTOR: 1
COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	. <0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVER	IES
BROMOCHLOROMETHANE (%)	98
TRIFLUOROTOLUENE (%)	102

TEST: EPA 8010 (HALOGENATED VOLATILE ORGANICS)

DATE SAMPLED CLIENT : US TECHNICAL ENV. CONSULTING : 01/16/90 PROJECT # : 89007 DATE RECEIVED : 01/17/90 PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90 CLIENT I.D. : COMP.S3 DATE ANALYZED : 01/23/90 SAMPLE MATRIX : SOIL UNITS : MG/KG DILUTION FACTOR : 1

·	DILUTION FACTOR : 1
COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	
BROMOCHLOROMETHANE (%)	109
MRIELHODOMOLUENE (%)	114

BROMOCHLOROMETHANE (%)	•	109
TRIFLUOROTOLUENE (%)		116

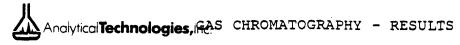
TEST: EPA 8010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT : 39007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S4 DATE ANALYZED : 01/20/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR: 1

COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	

BROMOCHLOROMETHANE (%)	94
TRIFLUOROTOLUENE (%)	100



REAGENT BLANK

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90

PROJECT = : 89007 DATE ANALYZED : 01/22/90
PROJECT NAME : TORRANCE UNITS : MG/KG
CLIENT I D : REAGENT BLANK

CLIENT I.D. : REAGENT BLANK DILUTION FACTOR: N/A COMPOUNDS RESULTS BROMODICHLOROMETHANE <0.010 BROMOFORM <0.010 **BROMOMETHANE** <0.010 CARBON TETRACHLORIDE <0.010 CHLOROBENZENE <0.025 CHLOROETHANE <0.010 CHLOROFORM <0.010 CHLOROMETHANE <0.010 DIBROMOCHLOROMETHANE <0.010 1,2-DICHLOROBENZENE <0.025 1,3-DICHLOROBENZENE <0.025 1,4-DICHLOROBENZENE <0.025 DICHLORODIFLUOROMETHANE <0.010 1,1-DICHLOROETHANE <0.010 1,2-DICHLOROETHANE <0.010 1,1-DICHLOROETHENE <0.010 1,2-DICHLOROETHENE (TOTAL) <0.010 1,2-DICHLOROPROPANE <0.010 CIS-1,3-DICHLOROPROPENE <0.010 TRANS-1,3-DICHLOROPROPENE < 0.010 METHYLENE CHLORIDE <0.10 1,1,2,2-TETRACHLOROETHANE <0.010 TETRACHLOROETHENE <0.010 1,1,1-TRICHLOROETHANE <0.010 1,1,2-TRICHLOROETHANE <0.010 TRICHLOROETHENE <0.010 TRICHLOROFLUOROMETHANE < 0.10 VINYL CHLORIDE <0.010 SURROGATE PERCENT RECOVERIES BROMOCHLOROMETHANE (%) 125

BROMOCHLOROMETHANE (%)

TRIFLUOROTOLUENE (%)

96



QUALITY CONTROL DATA

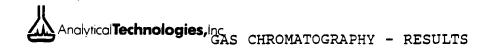
ATI I.D. : 001201

TEST: EPA 8010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90 PROJECT # : 89007 DATE ANALYZED : 01/22/90 PROJECT NAME : TORRANCE SAMPLE MATRIX : SOIL

REF I.D. : 00120101 UNITS : MG/KG

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	-	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
CHLOROFORM CHLOROBENZENE 1,1-DICHLOROETHENE TRICHLOROETHENE TETRACHLOROETHENE	<0.010 <0.025 <0.010 <0.010 <0.010	0.50 0.50 0.50	0.49 0.55 0.31 0.46 0.44	98 110 62 92 88	0.49 0.52 0.39 0.52 0.42	98 104 78 104 84	0 6 23 12 5



TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

DATE SAMPLED : 01/16/90 DATE RECEIVED : 01/17/90 : US TECHNICAL ENV. CONSULTING CLIENT : 89007 PROJECT # DATE EXTRACTED : 01/17/90 PROJECT NAME : TORRANCE CLIENT I.D. : COMP.S1 DATE ANALYZED : 01/19/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR: 5

COMPOUNDS	RESULTS
ALDRIN	<0.025
ALPHA - BHC	<0.025
BETA - BHC	<0.025
GAMMA-BHC (LINDANE)	<0.025
DELTA - BHC	<0.025
CHLORDANE	<0.25
P,P'-DDD	<0.050
P,P'-DDE	0.056
P,P'-DDT	0.39
O,P'-DDD	<0.050
O,P'-DDE	<0.050
O,P'-DDT	<0.050
DIELDRIN	<0.050
ENDOSULFAN I	<0.025
ENDOSULFAN II	<0.050
ENDOSULFAN SULFATE	<0.050
ENDRIN	<0.050
ENDRIN KETONE	<0.050
HEPTACHLOR	<0.025
HEPTACHLOR EPOXIDE .	<0.025
METHOXYCHLOR	<0.25
TOXAPHENE	<0.50
AROCLOR 1016	<0.25
AROCLOR 1221	<0.25
AROCLOR 1232	<0.25
AROCLOR 1242	<0.25
AROCLOR 1248	<0.25
AROCLOR 1254	<0.25
AROCLOR 1260	<0.25
MIREX	<0.050
KEPONE	<0.050
SURROGATE PERCENT RECOVERIES	

TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT # : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S2 DATE ANALYZED : 01/22/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

SAMPLE MATRIX : SOIL UNITS : MODILUTION FACTOR : 1

RESULTS ALDRIN <0.005 ALPHA - BHC <0.005 BETA - BHC <0.005 GAMMA-BHC (LINDANE) <0.005 DELTA - BHC <0.005 CHLORDANE <0.050 P,P'-DDD <0.010 P, P'-DDE <0.010 P, P'-DDT 0.077 O,P'-DDD <0.010 O,P'-DDE <0.010 O,P'-DDT <0.010 DIELDRIN <0.010 ENDOSULFAN I <0.005 ENDOSULFAN II <0.010 ENDOSULFAN SULFATE <0.010 ENDRIN <0.010 ENDRIN KETONE <0.010 HEPTACHLOR <0.005 HEPTACHLOR EPOXIDE <0.005 METHOXYCHLOR <0.050 TOXAPHENE <0.10 AROCLOR 1016 <0.050 AROCLOR 1221 <0.050 AROCLOR 1232 <0.050 AROCLOR 1242 < 0.050 AROCLOR 1248 <0.050 AROCLOR 1254 <0.050 AROCLOR 1260 <0.050 MIREX <0.010 KEPONE <0.010

SURROGATE PERCENT RECOVERIES

TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

: US TECHNICAL ENV. CONSULTING CLIENT DATE SAMPLED : 01/16/90 PROJECT # : 89007 DATE RECEIVED : 01/17/90 PROJECT NAME DATE EXTRACTED : 01/17/90 : TORRANCE CLIENT I.D. : COMP.S3 DATE ANALYZED : 01/22/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR: 1

COMPOUNDS	RESULTS
ALDRIN	<0.005
ALPHA - BHC	<0.005
BETA - BHC	<0.005
GAMMA-BHC (LINDANE)	<0.005
DELTA - BHC	<0.005
CHLORDANE	<0.050
P,P'-DDD	<0.010
P, P'-DDE	<0.010
P, P'-DDT	0.032
O,P'-DDD	<0.010
O,P'-DDE	<0.010
O,P'-DDT	<0.010
DIELDRIN	<0.010
ENDOSULFAN I	<0.005
ENDOSULFAN II	<0.010
ENDOSULFAN SULFATE	<0.010
ENDRIN	<0.010
ENDRIN KETONE	<0.010
HEPTACHLOR	<0.005
HEPTACHLOR EPOXIDE	<0.005
METHOXYCHLOR	<0.050
TOXAPHENE	<0.10
AROCLOR 1016	<0.050
AROCLOR 1221	<0.050
AROCLOR 1232	<0.050
AROCLOR 1242	<0.050
AROCLOR 1248	<0.050
AROCLOR 1254	<0.050
AROCLOR 1260	<0.050
MIREX	<0.010
KEPONE	<0.010
SURROGATE PERCENT RECOVERIES	S

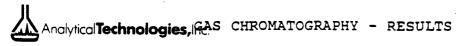
TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT = : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S4 DATE ANALYZED : 01/22/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

AMPLE MATRIX : SOIL UNITS : MC DILUTION FACTOR : 1

COMPOUNDS	RESULTS
ALDRIN	<0.005
ALPHA - BHC	<0.005
BETA - BHC	<0.005
GAMMA-BHC (LINDANE)	<0.005
DELTA - BHC	<0.005
CHLORDANE	<0.050
P,P'-DDD	<0.010
P,P'-DDE	0.011
P, P'-DDT	0.063
O,P'-DDD	<0.010
O,P'-DDE	<0.010
O,P'-DDT	<0.010
DIELDRIN	<0.010
ENDOSULFAN I	<0.005
ENDOSULFAN II	<0.010
ENDOSULFAN SULFATE	<0.010
ENDRIN	<0.010
ENDRIN KETONE	<0.010
HEPTACHLOR	<0.005
HEPTACHLOR EPOXIDE	<0.005
METHOXYCHLOR	<0.050
TOXAPHENE	<0.10
AROCLOR 1016	<0.050
AROCLOR 1221	<0.050
AROCLOR 1232	<0.050
AROCLOR 1242	<0.050
AROCLOR 1248	<0.050
AROCLOR 1254	<0.050
AROCLOR 1260	<0.050
MIREX	<0.010
KEPONE	<0.010
SUPPOCATE DEPOEMT DECOVERIES	

SURROGATE PERCENT RECOVERIES



REAGENT BLANK

TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

CLIENT : US TECHNICAL ENV. CONSULTING ATI I.D. : 001201

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90

PROJECT # : 89007 DATE ANALYZED : 01/19/90
PROJECT NAME : TORRANCE UNITS : MG/KG

CLIENT I.D. : REAGENT BLANK DILUTION FACTOR : N/A

COMPOUNDS	RESULTS
ALDRIN	<0.005
ALPHA - BHC	<0.005
BETA - BHC	<0.005
GAMMA-BHC (LINDANE)	<0.005
DELTA - BHC	<0.005
CHLORDANE	<0.050
P,P'-DDD	<0.010
P,P'-DDE	<0.010
P,P'-DDT	<0.010
O,P'-DDD .	<0.010
O,P'-DDE	<0.010
O,P'-DDT	<0.010
DIELDRIN	<0.010
ENDOSULFAN I	<0.005
ENDOSULFAN II	<0.010
ENDOSULFAN SULFATE	<0.010
ENDRIN	<0.010
ENDRIN KETONE	<0.010
HEPTACHLOR	<0.005
HEPTACHLOR EPOXIDE	<0.005
METHOXYCHLOR	<0.050
TOXAPHENE	<0.10
AROCLOR 1016	<0.050
AROCLOR 1221	<0.050
AROCLOR 1232	<0.050
AROCLOR 1242	<0.050
AROCLOR 1248	<0.050
AROCLOR 1254	<0.050
AROCLOR 1260	<0.050
MIREX	<0.010
KEPONE	<0.010
SURROGATE PERCENT RECOVERIES	



QUALITY CONTROL DATA

ATI I.D. : 001201

TEST: EPA 8080 (ORGANOCHLORINE PESTICIDES AND PCB'S)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90 PROJECT # : 89007 DATE ANALYZED : 01/20/90 PROJECT NAME : TORRANCE SAMPLE MATRIX : SOIL REF I.D. : 00120101 UNITS : MG/KG

DUP. SAMPLE CONC. SPIKED % SPIKED % COMPOUNDS RESULT SPIKED SAMPLE REC. SAMPLE REC. RPD <0.025 0.027 0.026 96 0.024 GAMMA BHC 89 <0.025 0.027 0.022 81 0.021 HEPTACHLOR ALDRIN <0.025 0.027 0.021 78 0.020 5 74 <0.050 0.067 0.083 DIELDRIN 124 0.071 106 16 <0.050 0.067 0.057 ENDRIN 85 0.050 75 13 P, P'-DDT 0.39 0.067 0.40 ** 0.37 ** 8

% Recovery = (Spike Sample Result - Sample Result)
----- X 100
Spike Concentration

RPD (Relative % Difference) = (Spiked Sample - Duplicate Spike)

Result Sample Result

------ X 100

Average of Spiked Sample

** Due to the necessary dilution of the sample, result was not attainable

TEST : EPA 8150 (CHLORINATED HERBICIDES)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT = : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S1 DATE ANALYZED : 01/23/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

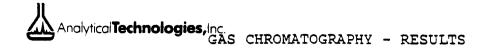
COMPOUNDS	RESULTS
2,4-D	<0.004
2,4,5-TP (SILVEX)	<0.002
DICAMBA	<0.004
2,4,5-T	<0.002
2,4-DB	<0.004
DINOSEB	<0.004
DICHLORPROP	<0.004

TEST: EPA 8150 (CHLORINATED HERBICIDES)

: US TECHNICAL ENV. CONSULTING CLIENT DATE SAMPLED : 01/16/90 DATE RECEIVED : 01/17/90 PROJECT # : 89007 DATE EXTRACTED : 01/17/90 PROJECT NAME : TORRANCE CLIENT I.D. : COMP.S2 DATE ANALYZED : 01/24/90

SAMPLE MATRIX : SOIL UNITS : MG/KG

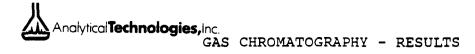
2,4-D <0.004 2,4,5-TP (SILVEX) <0.002	COMPOUNDS	RESULTS
DICAMBA <0.004 2,4,5-T <0.002 2,4-DB <0.004 DINOSEB <0.004 DICHLORPROP <0.004	2,4,5-TP (SILVEX) DICAMBA 2,4,5-T 2,4-DB DINOSEB	<0.002 <0.004 <0.002 <0.004 <0.004



TEST: EPA 8150 (CHLORINATED HERBICIDES)

: US TECHNICAL ENV. CONSULTING CLIENT DATE SAMPLED : 01/16/90 : 89007 PROJECT # DATE RECEIVED : 01/17/90 PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90 CLIENT I.D. DATE ANALYZED : COMP.S3 : 01/24/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

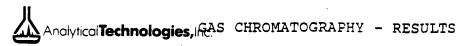
COMPOUNDS	RESULTS
2,4-D	<0.004
2,4,5-TP (SILVEX)	<0.002
DICAMBA	<0.004
2,4,5-T	<0.002
2,4-DB	<0.004
DINOSEB	<0.004
DICHLORPROP	<0.004



TEST: EPA 8150 (CHLORINATED HERBICIDES)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90 PROJECT # : 89007 DATE RECEIVED : 01/17/90 PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90 CLIENT I.D. : COMP.S4 DATE ANALYZED : 01/24/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

COMPOUNDS	RESULTS	
2,4-D	<0.004	
2,4,5-TP (SILVEX)	<0.002	
DICAMBA	<0.004	
2,4,5-T	<0.002	
2,4-DB	<0.004	
DINOSEB	<0.004	
DICHLORPROP ·	<0.004	



REAGENT BLANK

TEST: EPA 8150 (CHLORINATED HERBICIDES)

ATI I.D. : 001201 DATE EXTRACTED : 01/17/90 : US TECHNICAL ENV. CONSULTING CLIENT PROJECT # DATE ANALYZED : 01/23/90 : 89007 PROJECT NAME : TORRANCE UNITS : MG/KG

CLIENT I.D. : REAGENT BLANK DILUTION FACTOR : N/A

COMPOUNDS	RESULTS		
2,4-D	<0.004		
2,4,5-TP (SILVEX)	<0.002		
DICAMBA	<0.004		
2,4,5-T	<0.002		
2,4-DB	<0.004		
DINOSEB	<0.004		
DICHLORPROP	<0.004		



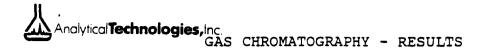
QUALITY CONTROL DATA

ATI I.D. : 001201

TEST: EPA 8150 (CHLORINATED HERBICIDES)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90
PROJECT # : 89007 DATE ANALYZED : 01/24/90
PROJECT NAME : TORRANCE SAMPLE MATRIX : SOIL
REF I.D. : 00120101 UNITS : MG/KG

COMPOUNDS		CONC. SPIKED		•		DUP. % REC.	RPD
2,4-D 2,4,5-TP 2,4,5-T DINOSEB	<0.0020 <0.0020	0.033 0.033 0.033 0.033	0.022 0.021	67 64	0.025	79	12 13 22 9

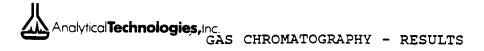


TEST: EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT # : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S1 DATE ANALYZED : 01/23/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR: 1

COMPOUNDS RESULTS



TEST: EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT # : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S2 DATE ANALYZED : 01/24/90

SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR : 1

COMPOUNDS RESULTS

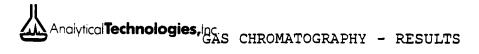
TEST : EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT = : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S3 DATE ANALYZED : 01/24/90

SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR: 1

COMPOUNDS RESULTS



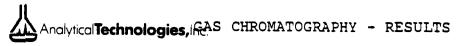
TEST: EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT # : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90

CLIENT I.D. : COMP.S4 DATE ANALYZED : 01/24/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

DILUTION FACTOR : 1

COMPOUNDS RESULTS



REAGENT BLANK

TEST: EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90

PROJECT # : 89007 DATE ANALYZED : 01/23/90
PROJECT NAME : TORRANCE UNITS : MG/KG

CLIENT I.D. : REAGENT BLANK DILUTION FACTOR : N/A

COMPOUNDS RESULTS



QUALITY CONTROL DATA

ATI I.D. : 001201

TEST: EPA 8040 (PENTACHLOROPHENOL)

CLIENT : US TECHNICAL ENV. CONSULTING DATE EXTRACTED : 01/17/90 PROJECT # : 89007 DATE ANALYZED : 01/24/90 PROJECT NAME : TORRANCE SAMPLE MATRIX : SOIL

REF I.D. : 00120101 SAMPLE MATRIX : SOIL UNITS : MG/KG

DUP. DUP. SAMPLE CONC. SPIKED % SPIKED %

COMPOUNDS RESULT SPIKED SAMPLE REC. RPD

PENTACHLOROPHENOL <0.0050 0.010 0.0025 25 0.0024 24 4

ERC - Environmental and Energy Services Company

Bioassay Laboratory

10477 C Roselle Street San Diego, CA 92121 (619) 458-9044 ext 208

Client Name: Analytical Tech. Address: 5550 Morehouse Drive, San Diego, CA

Sample ID:	001201-	05 Resu	lts: <u>LC50 > 750 mg/l</u>
		Sample and Bi	oassay Information
Test Type:	Screenin	g	Test Conditions: Static
Test Species	s: Pimepha	les promelas	Common Name: Fathead minnow
Organism Si	upplier:	Thomas Fish Company	Number per Tank: 10
Acclimation	Period:	12 Days	Acclimation Temp. (°C): 20 ± 2
Mean Length	(mm):	27.6	Mean Weight (g): 0.32
Range (mm):	•	24 to 33	
•		Filtered Tapwater	Test Solution Volume (liters) 8
Sample Reci		1/19/90	Test Dates: 1/22/90 to 1/26/90

Results Summary

Treatment	Rep.	Initial Count	Final Count	Percent Mortality	Average Mortality
Control	A B	1 0 1 0	1 0 1 0	0 0	0
250 mg/l	A B	1 0 1 0	1 0 1 0	0 0	o
500 mg/l	A B	1 0 1 0	1 0 1 0	0	0
750 mg/l	A B	1 0 1 0	1 0 1 0	0 0	0

LC50 (95% confidence interva	ls): >750 mg/l
Calculation Method: not ned	
Analyst (s): J. Timm	Date: 2/5/90
Analyst (s): J. Timm Results Verified by: Bassy	Carle Date: 2/5/90
No to the	J. 1901

ERC - Environmental and Energy Services Company

Bioassay Laboratory

10477 C Roselle Street San Diego, CA 92121 (619) 458-9044 ext 208

Client Name:	Analytica	I Tech.	Address:	5550 Morehouse	Drive. San Die	ego, CA
Sample ID:	001201-	06	Results:	LC50 > 750 mg/	1	
		Sample	and Bioas	ssay Information		
Test Type:	Screenin	g _·		Test Conditions	: Static	
Test Species:	Pimepna	les promelas		Common Name:	Fathead min	now
Organism Su	pplier:	Thomas Fish	Company	Number per Tani	k: 10	
Acclimation	Period:	12 Days	·	Acclimation Tem	np. (°C):	20 ± 2
Mean Length	(mm):	27.6		Mean Weight (g)	. 0 <i>.</i> 32	
Range (mm):		24 to 33	 _	,		·
Water Source		Filtered Tag	owater	Test Solution V	olume (liters)	8
Sample Rece	pt Date:	1/19/90		Test Dates:	1/22/90 to	
·	•					

Results Summary

Treatment	Rep.	Initial Count	Final Count	Percent Mortality	Average Mortality
Control	A B	1 0 1 0	1 0 1 0	0	0
250 mg/l	A B	1 0 1 0	1 0 1 0	0	0
500 mg/l	A B	1 0 1 0	1 0 1 0	. 0 0	. 0
750 mg/l	A B	1 0 1 0	1 0 1 0	0 0	0

LC50 (95% confidence intervals):	>750 mg/l	
Calculation Method: not necess	ary	
Analyst (s): J. Timm	Date:	2/5/90
Results Verified by: Bany Sugar	Date:	2/5/90

ERCE Bioassay Laboratory 10477 Roselle St.; Suite C San Diego, CA 92121 (619) 458-9044 ext. 400

Client Name: AT		EBL Tes	No.: 90021
Sample ID.: 60	1201-05	Test Dat	es: 1/22 - 1/26/40
Analysts: Alum	T Monj	Lab Man	ager: Burry Sny
Fathe	ead Minnow Ac	ute Toxicity Test	Results
Concentrations	Total # Exposed	Total # Survived	Percent Survival
Control	_20_	20_	النتي ال
150 mg/L	_20_	<u>>c</u>	<u> </u>
<u>_5w</u> _	<u> </u>	20	100
<u> 750</u>	<u> 20</u>	٥٥	<u> 105</u>
			
		. ————	
			
Results Summ	nary		
•	% Effluent		Comments
LC ₅₀	> 750 m	all _	
95% intervals	NIU		
Mean Weight	<u>6.32 g</u>		
Mean Length	276 m-		
Rans	24 to 33 m	m	

Toxicity Test Data Sheet - EESCo Bioassay Laboratory

Client	ATI COIZCI-CS	Start Date & Time	1/22-100	1700
Address	5510 Hore house Br , Sunpiego. CA	End Date & Time	1/20/50	1700
Contact	Liz Shigley	Test Organism	AMEPLALES	PRMELAS
EBL #	90027	Test Procedure	TITLE 22	

Conc.	1	I	Nu	mbe	er of		Di	ssol	ved	Оху	gen			pН				Con	iduc	tivi	ty	Ι	Tem	per	atur	8	
or	Rep.				<u>anisr</u>				mg/					<u>unit</u>					mho			<u> </u>		(.C			Percent
**																										96	Survival
CONSTEUR	A	iυ	in	_	10	0	40	8.0	74	85	81	14	77)	771	6.01	148	420	λK	11°C	(IÜ	900	خرم	M. G	خئا	(1.1	411	100
	B	10	10	10		10																				40	102
250moll	Α		10	ľ																						209	
	B										84	þУ	7.45	155	115	815	180	12.	110	SIL.	890	128	190	1113	194	210	· · ·
SI		10	10			-			14		79	7.69	א ק	17	158	80	140	78°	w	w	80	128	19.0	61.5	14.3	211	112
	ত্ত	10	U	W	10	10	AT.	7.4	74	14	13	12	7.76	161	1144	BOU	160	730	110	w	RPO	120	,,,,,	112	[13]	21 1	101,
750	<u> </u>	įυ	10	W.	10	10	3.5	7"	16	1.6	24	DY_1	730	136	1.11	110	18V	130	12	KŃ	800	47 g	19.1	191	15.3	21 1	<u>w</u>
	ß	15,	IU.	10	10	10	K.0	7 6	7.0	8.1	8.4	1 73	12.1	1.38	871	9 10	116	15	130	100	Bon	127	71.0	11/2	11.7	21	100
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Conc.	(mg/1			٦١	(m	g/1			۲)		Cili		g/1)		"				Ana	lvei	٥.	A, 1	1~1	\sim 1	in:		JEFF TIMM
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highest conc.		12						29					٥٥									rest.	24.	7	رح	411	UPS
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	24 hrs.	76	0 1	ηhe	KY	·······································	υ <i>(</i>	64^	t	lis	<u>. </u>								•	-							
	48 hrs.	<u>_</u>	02		low	1		1/2	((أميا		FIL	<u>b.</u>														
	72 hrs.		san	NP_	١,																						
	96 hrs.	Ī.	Jon	L																							

ERCE Bioassay Laboratory 10477 Roselle St.; Suite C San Diego, CA 92121 (619) 458-9044 ext. 400

Client Name: AT	<u> </u>	_ EBL Test	No.: 40028	
Sample ID.: (301)	01-06	Test Date	es: 1/22 - 1/26/6	<u>.0</u>
Analysts: Alun	T Monji	_ Lab Man	ager: Barry Sny	<u>را</u> ر،
<u>Fathe</u>	ad Minnow Acu	ite Toxicity Test	Results	
Concentrations	Total # Exposed	Total # Survived	Percent Survival	
Control	<u> 20</u>		100° le	
250 mg/l	<u> 20</u>		_100_	
500	20	<u>)</u>	100	
750	_ טכ		100	
*				
-				
Results Summa	ary			
	% Effluent		Comments	
LC ₅₀	>750 m	ale _		-
95% intervals	N/A			-
Mean Weight	0.324	_		_
Mean Length	27.6 mm			_
Range	24 to 33	mu		

Toxicity Test Data Sheet - EESCo Bioassay Laboratory

	Client						01201-00						Start Date & Time 1/22/90 1700														
	Address	3	55	10 1	loie	hous	e Di	30	in D	164ú	CH			En	d Da	te &	Tin	ne		12	4	19	(2)	į	70	プン	_
	Contact			-12	Shi	alex								Tes	st Or	`gan	ism		8	~16	ΞĖ	100	-63	> 6	72	<u>~~</u>	ELAS
	EBL #			12	00	Ž	B				_			Tes	st Pi	roce	dure	3	T	171	Œ	2.	Z				_
																											·
Conc.			Nu	mbe	r of	•	Di	ssol	yed	Oxy	gen	1		ρН			l	Cor	nduc	tivi	ty	1			atur	.6	1
or	Rep.	L	ive (Orga	nis	ms		(mg/	<u>i)</u>		<u> </u>	(<u>unit</u>	s)		<u>L</u> _	<u>(μ</u>	mho	s-ci	<u>n)</u>			(.c			Percent
	L	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	Survival
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	ß	10	10	10	10	10	1.5	3.5	11	85	1 <i>0</i> c	h	l.,,,	11.56	1267	100	6.0	Scc.	w	1521	Qqn	. UN #	ح ما	10.4	14.1	210	100
252/mg/1	A	10	16	10	10	10	86	8.	19	41	10	1.46	7.58	146	1.11	113	19	750	190	w	360	7 (1	ાકડ	14.0	192	211	100
	ß	10	10	13	ما	. ^	87	9.3	8.1	8.5	19	DAL	784	12	8 CI	8.09	150	110	7,0	رتي	८८	r2 5	, 0 \$	(4.1	147	210	100
500	A	10	lü	10	9	10	h4	1.4	7. C	1.7	15	1111	768	110	801	8 10	160	160	4 50	W.	860	26	18 1	iq.c	19.1	21 i	שוו
	ß			10	10	11)	86	1.8	13	74	21	54	7 50	1:50	149	7 78	7(0	160	Ъc	13	860	194	18.7	4.6	82	211	iw
750	A		10	10	10	ĬΌ	15	2.5	15 18	K	8.0	785	1.42	118	102	801	140	770	166	SUB SUB	80	1))	121	19.1	115	208	INC)
	ß	io	10	W	10	10	71	V. L	92	8.3	38	410	199	17	10	BOU	N)	761	Ju!	DD.	960	157	18/3	14.0	193	210	IUU
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Conc.	(mg/1			3)	(m	1/p	as C	aCO	3)			(m	g/I)						Ana	lyst	s : .	15	T	7	7~	\sim	<u>ALMI MANI</u>
control	iwu	_	34			200			245	,		35								•							
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Comments:	0 hrs •	Ohrs SOIL DESCRIPTION: DARK AND WET, CO										LAY	411	25	r		· 625	17:0	₹.								
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Chain of Custody

DATE 2-16 80 PAGE 4 OF

PROJECT MANAGER: Park	Beau	161				1.5	À.		.60		-				AN	AL۱	/SIS	R	EQL	JES	T							10 Tab		
COMPANY: Analytic ADDRESS: 5550 / San Dic BILL TO: Ll. S. The COMPANY: 1414 C. ADDRESS: Teape, 1	Toreso	Chologies Inc. 194 Se Dr. 195 Se Dr. 19			m Hydrocarbons (418.1) - P.C. C.L.	(S		E (MOC 8015/8020)	ydrocarbons (601/8010)	: Hydrocarbons (602/8020)	OC Dutals	,	•	0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 /		S (625/8270)	Organics GCMS (624/8240)	Alrethulane	a chlorinhenol	/		SUWA Secondary Standards	VOURBIES (SOZ.1/SOZ.1)		The 8 EP Tox Metals by EP Tox Prep. (1310)	The & EP Tox Metals by Total Digestion			EB OF CONTAINEDS	200
SAMPLERS: (Signature)	DATE		MATRIX	li 40 00	Petroleu	8		ETXE (ROZO)	Ę	Sometr	1	10				ase/Ne	Votatie	<u>ز</u>	3	Bio	¥ Q	S AMOS	EDBATE VOIL	5 5	100	To 6 EF		-	NUMBER	
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PROJECT INFORMATION PROJECT NUMBER: 8900 7		TOTAL		PLE RECE			<u> </u>		REL	.INON	JI SHI	<u> </u> ED 8			_	REL	NOX	JISH	ED I	BY:			2	REL	MOL	II SHI	ED E	 3Y:	3.	1
PROJECT NAME: Torrance PURCHASE ORDER NUMBER: P10: VIA:	e 580	CHAIN (INTACT RECEN	ED G000 0	OY SEALS	D .		1/ N/ Y	7	Print		-X-		1	ime; 13/4 Date:	٧٤	Signa Printa Comp	d Na	me:			Da		_	Signa Printe Corre	d Na	me:			me: lale:	
Disposal	MPLE DISPO	SAL INSTR Return	SAL INSTRUCTIONS Beaum Pickup (will call)						Sign	CEIV		Y:	Ti	me: Date:		REC Signal	pre:	· 	3Y:	į	Tim		2	K	alre:	ho			ine./	ī 0-
Comments: Plecese Mus. 1PH. Then A The Lun Liches	t TPA	For 1	ths 1 Ness	YZC Kowl	all be				Сап	pery:	<u></u>				_ .	Com								Anal						2/1



ATI I.D. 002111

February 16, 1990

US Technical Environmental Consulting 1414 W. Broadway Road, Suite #150 Tempe, Arizona 85282

Project Name: Torrance

Project No.: 89007

P.O. No.: P10590

Attention: Pete Beaver

On February 9, 1990, Analytical Technologies, Inc. received a request to analyze <u>four soil</u> samples from previously accessioned ATI I.D. 001201. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. Please see the attached sheet for the sample cross reference.

The results of these analyses and the quality control data are enclosed.

Julio' Paredes Metals Supervisor

JP:nm

Richard M. Amano Laboratory Manager



ANALYTICAL SCHEDULE

CLIENT: US TECHNICAL ENV. CONSULTING PROJECT NO.: 89007

PROJECT NAME: TORRANCE

ANALYSIS	TECHNIQUE	REFERENCE/METHOD
ARSENIC	ICAP	EPA 6010
BARIUM	ICAP	EPA 6010
CHROMIUM	ICAP	EPA 6010
COPPER	ICAP	EPA 6010
LEAD	ICAP	EPA 6010
VANADIUM	ICAP	EPA 6010
WASTE EXTRACTION TEST (WET)	-	CCR TITLE 22

Analytical **Technologies,** Inc.

CLIENT : US TECHNICAL ENV. CONSULTING

PROJECT # : 89007

PROJECT NAME : TORRANCE

DATE RECEIVED : 01/17/90

REPORT DATE : 02/16/90

ATI I.D. : 002111

ATI =	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	COMP.S1	SOIL	01/16/90
02	COMP.S2	SOIL	01/16/90
03	COMP.S3	SOIL	01/16/90
04	COMP.S4	SOIL	01/16/90
05	COMP.S1 (WET)	WET EXTRACT	01/16/90
06	COMP.S2 (WET)	WET EXTRACT	01/16/90
07	COMP.S3 (WET)	WET EXTRACT	01/16/90
80	COMP.S4 (WET)	WET EXTRACT	01/16/90

---- TOTALS ----

MATRIX	# SAMPLES
SOIL	4
WET EXTRACT	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



DATE RECEIVED : 01/17/90

CLIENT : US TECHNICAL ENV. CONSULTING PROJECT # : 89007
PROJECT NAME : TORRANCE REPORT DATE : 02/16/90

TROOLET NAME : TORGANICE				KLFORT	DATE	. 02/10/90
PARAMETER	UNITS	05	06	07	08	
ARSENIC	MG/L	<0.3	<0.3	0.4	<0.3	
BARIUM	MG/L	6.5	7.8	7.9	8.2	
CHROMIUM	MG/L	0.4	0.4	0.3	0.3	
COPPER	MG/L	0.4	0.4	0.3	0.3	
LEAD	MG/L	0.3	0.5	0.3	0.3	
VANADIUM	MG/L	0.8	1.0	0.9	1.0	



METALS - QUALITY CONTROL

CLIENT : US TECHNICAL ENV. CONSULTING

PROJECT # : 89007
PROJECT NAME : TORRANCE

PROJECT NAME : TORRANCE ATI I.D. : 002111

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE		% REC
ARSENIC BARIUM CHROMIUM COPPER LEAD VANADIUM	MG/L MG/L MG/L MG/L MG/L	00213711 00213711 00213711 00213711 00213711 00213711	2.3 0.5 30.6 29.5	<0.3 2.3 0.6 65.8 21.5	0 0 18 73* 31* 13	9.9 13.2 10.3 97.4 33.2 10.7	10.0 10.0 10.0 50.0 10.0	99 109 98 98 77 100

* Result out of limits due to sample matrix interference

Average Result



ATI I.D. 911238

December 13, 1989

U.S. Technical Environmental 14 West Broadway, Suite #150 Tempe, Arizona 85282

Project Name: C.C. Torrance

Project No.: 2179J286

Attention: Peter Beaver

On November 10, 1989, Analytical Technologies, Inc. received a request to analyze two soil samples from previously accessioned ATI I.D. 910133. The samples were analyzed with EPA methodology or equivalent methods as specified in the attached analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. Please see the attached sheet for the sample cross reference.

The results of this analysis and the quality control data are enclosed.

Matricia A. Schroder GC Supervisor

PAS:nm

Richard M. Amano Laboratory Manager



ATI I.D. 911238

ANALYTICAL SCHEDULE

CLIENT: U.S. TECHNICA PROJECT NAME: C.C. TO	RRANCE	PROJECT NO.: 2179J286
ANALYSIS	TECHNIQUE	REFERENCE/METHOD
FISH TOXICITY	-	*

^{*} Fish toxicity was analyzed by Environmental & Energy Services Co., Biossay Laboratory of San Diego, California.

. Analytical**Technologies,**Inc.

CLIENT : U.S. TECHNICAL ENVIRONMENTAL

PROJECT # : 2179J286

PROJECT NAME : C.C.TORRANCE

ATI I.D.: 911238

DATE RECEIVED: 10/10/89

REPORT DATE : 12/12/89

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	SC-2	SOIL	10/09/89
02	SC-4	SOIL	10/09/89

---- TOTALS ----

MATRIX # SAMPLES
SOIL 2

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ERC - Environmental and Energy Services Company

Bioassay Laboratory

10477 C Roselle Street San Diego, CA 92121 (619) 458-9044 ext 208

Client Name:	Analytic	ai iecn.	Address:	5550 Morenouse L	rive. San Dieg	0. CA
Sample ID:	91123	8-01	Results:	LC50 > 750 mg/l		
		Sample	and Bloas	say Information		
Test Type:	Screeni	ng		Test Conditions:	Static	
	Pimeph	ales promelas		Common Name:	Fathead minno	w
Organism Sur		Thomas Fish Co	mpany	Number per Tank:	1 0	
Acclimation P		14 days		Acclimation Temp	. (°C):	20 ± 2
Mean Length	(mm):	24.8		Mean Weight (g):	0.3	
Range (mm):	•	21 to 32		•		
		al Filtered Tapwa	ter	Test Solution Vol	ume (liters):	8
Sample Receip		11/20/89		Test Dates:		2/2/89

Results Summary

Treatment	Rep.	Initial Count	Final Count	Percent Mortality	Average Mortality
Control	A B	1 0 1 0	1 0 1 0	0	0
250 mg/l	A B	1 0 1 0	1 0 1 0	0	0
500 mg/l	A B	1 0 1 0	10 ·	0	0
750 mg/i	A B	1 0 1 0	1 0 1 0	0	0

LC50 (95% confidence	intervals):	>750 mg/l	
Calculation Method:	not necessar	у	
Analyst (s): Geffin	A. Tim	Date:	12/12/89
Results Verified by:	B Lugh	Date:	12/14/89

Toxicity Test Data Sheet - FESCo Bionssay Laboratory

Cliont	And high Technologies - 911238-01 5550 Morehouse Dr. San Diego	Start Date & Fime	11-28-84. 4:00
Address	5550 Morehoux or Sun Diego	End Date & Time	12-2-89
Contact	Murci Lindsey	lest Organism	Faithead Minnow
EBL #	89492	Test Procedure	Title 82

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007000713

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ERC - Environmental and Energy Services Company

Bioassay Laboratory

10477 C Roselle Street San Diego, CA 92121 (619) 458-9044 ext 208

Client Name:	Analytical Tech.	Address: 5550 Morehouse Drive, San Diego, CA
Sample ID:	911238-02	Results: <u>LC50 > 750 mg/l</u>
	Sample	and Bioassay Information
Test Type:	Screening	Test Conditions: Static
	Pimephales promelas	Common Name: Fathead minnow
Organism Sup	plier: Thomas Fish Co	mpany Number per Tank: 10
Acclimation Pe	eriod: 14 days	Acclimation Temp. (°C): 20 ± 2
Mean Length (mm): 24.8	Mean Weight (g): 0.3
Range (mm):	21 to 32	
	Charcoal Filtered Tapwa	ter Test Solution Volume (liters): 8
Sample Receip		Test Dates: 11/28 to 12/2/89

Results Summary

Treatment	Rep.	Initial Count	Final Count	Percent Mortality	Average Mortality
Control	A B	1 0 1 0	1 0 1 0	. 0	0
250 mg/l	A B	1 0 1 0	1 0 9	0 1 0	5
500 mg/l	A B	1 0 1 0	1 0 1 0	0 0	0
750 mg/l	A B	1 0 1 0	1 0 1 0	0	0

LC50 (95% confidence	intervals):	>750 mg/l	
Calculation Method:	not necessary		
	A:Zi	Date:	12/12/89
Results Verified by:	Bornels	Date:	12/12/89

96 lirs. none

911238-02

Toxicity Test Data Sheet - ITSCo Bloossay Laboratory

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STATE OF CAUPORNIA-HEALTH AND WELFARE AGENCY

OFOROT DEVINENAL GARAGE

DEPARTMENT OF HEALTH SERVICES

TOXIC SUBSTANCES CONTROL DIVISION REGION 4 845 WEST BROADWAY, SUITE 350 LONG BEACH, CA 90802

(2) 3) 890-4868

July 21, 1989



Mr. Michael J. Miller, P.E. Stoney-Miller Consultants, Inc. 14 Hughes, Suite B-101 Irvine, California 92718

Attn: Gary Carlin

Ving.

Dear Mr. Miller:

RECENTLY ACQUIRED PROPERTY OF COCA COLA ENTERPRISES IN THE CARSON-TORRANCE AREA OF THE CITY OF LOS ANGELES, CALIFORNIA AT 19875 PACIFIC GATEWAY DRIVE

We have completed our review of your letter report, hand delivered to this office on July 11, 1989 and have the following comments.

Your property lies about 1,300 feet north of the Del Amo Hazardous Waste Site. This site consists of waste disposal ponds and sumps that were used by a former synthetic rubber manufacturing complex. The types of wastes disposed in these ponds include volatile and semi-volatile organic substances such as benzene, styrene and naphthalene. It is believed that the complex covered the entire area bordered by 190th Street to the north, Del Amo Boulevard to the south, Normandie Avenue to the west, and Vermont Avenue and Hamilton Avenue to the east. Documents in our files indicate that there were manufacturing areas, underground and above ground tanks, underground lines, and possible sumps that may be sources of soil and ground water contamination. Soils and ground water beneath the Del Amo Site are contaminated by hazardous substances believed to have originated from the disposal ponds and sumps.

Because of the contaminant problems associated with the Del Amo disposal areas, we have referred the Site to the U.S. Environmental Protection Agency (EPA) for consideration for the National Priorities List. The Department of Health Services (DHS) Toxic Substances Control Division is also evaluating the entire area of the former rubber manufacturing complex as a source of ground water contamination. The high levels of napthalene and phenanthrene that you discovered at the subject location may be associated with the synthetic rubber manufacturing operations once conducted on your property because these same chemicals were also found at the Del Amo site. We suggest that you make a thorough historical search of your property to determine the types of past operations that may be causing the contamination. Should you have any plans to remediate the contamination on this property, this office would review those plans prior to proceeding.

Mr. Michael J. Miller. P.E. Page 2
July 21, 1989

If you have any questions, please contact Julia Bussey or Alice Gimeno at (213) 590-4856.

Alla C

Sincerely,

John Scandusa, Chief Site Mitigation Unit

Region 4 (Long Beach) Toxic Substances Control Division

Enclosure

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HARGIS + ASSOCIATES, INC.

2223 Avenida De La Playa, Suite 300 La Jolla, California 92037 (619) 454-0165 Telecopier (619) 454-5839

Dovid R. Horgis, Ph.D., R.G. Michael R. Long, R.G. Terry M. Turner, R.G. Roger A. Niemeyer, R.G. Leo S. Leonhart, Ph.D., R.G. Lance J. Raymond Peter 1. Quintan Mary F. Jones, Ph.D., R.E.A. Timothy T. Jarvis, Ph.D., R.E.A.

July 18, 1989



VIA FEDERAL EXPRESS

Mr. Matt Fanoe COCA-COLA ENTERPRISES One Coca-Cola Plaza, CCE-819 Atlanta, GA 30301

Re: Request for Property Access to Install a Groundwater Test Well

Dear Mr. Fance:

In regards to our telephone conversation of July 14, 1989, the following is the request for access which I mentioned. Please review and forward it to the necessary personnel within your company.

an administrative order from the United States Pursuant to Environmental Protection Agency (EPA) issued to Montrose Chemical Corporation of California (Montrose), this letter is a request for access to the property shown as owned by Coca-Cola Bottling Company of Los Angeles, Torrance, California. The purpose of the requested access is to install and sample, on a regular basis, one groundwater monitor well. The well is part of a groundwater investigation conducted by Montrose and overseen by the EPA that presently includes approximately 60 existing and proposed monitor wells in the immediate area (Figure 1).

The monitoring well is proposed for the northwest portion of the Coca-Cola Bottling Company property located at 19899 Pacific Gateway Drive, in Torrance, California. The field work required under the order involves access for: 1) a small truck mounted hollow stem auger drill rig, operated by sub-contractors to Hargis + Associates, Inc.; 2) Hargis + Associates, Inc. field personnel; and 3) EPA oversight personnel. The initial field work should involve no more than one week, and is planned to commence in late August or early September of 1989. The name and address of the proposed drilling contractor is: Beylik Drilling, Inc., '591 South Walnut, La Habra, California 90631.

The site will be restored to as near its original condition as possible before the field crews leave the property. An example of the proposed surface completion for the monitor wells has been provided (Figure 2).

HARGIS + ASSOCIATES, INC.

Aug 21,89 11:24 No.002 P.05

Mr. Matt Fanoe July 18, 1989 Page 2

Routine future access to the monitor well to collect groundwater samples will also be necessary. Coca-Cola Bottling Company will be given ample notice before any sampling activities take place.

Hargis + Associates, Inc. will telephone you later this week to confirm receipt of this letter and to further discuss this matter. If you have any questions in the interim, please contact Roger Niemeyer, Matthew Wiedlin, or myself. Hargis + Associates, Inc. looks forward to cooperating with you on with matter.

Sincerely,

HARGIS + ASSOCIATES, INC.

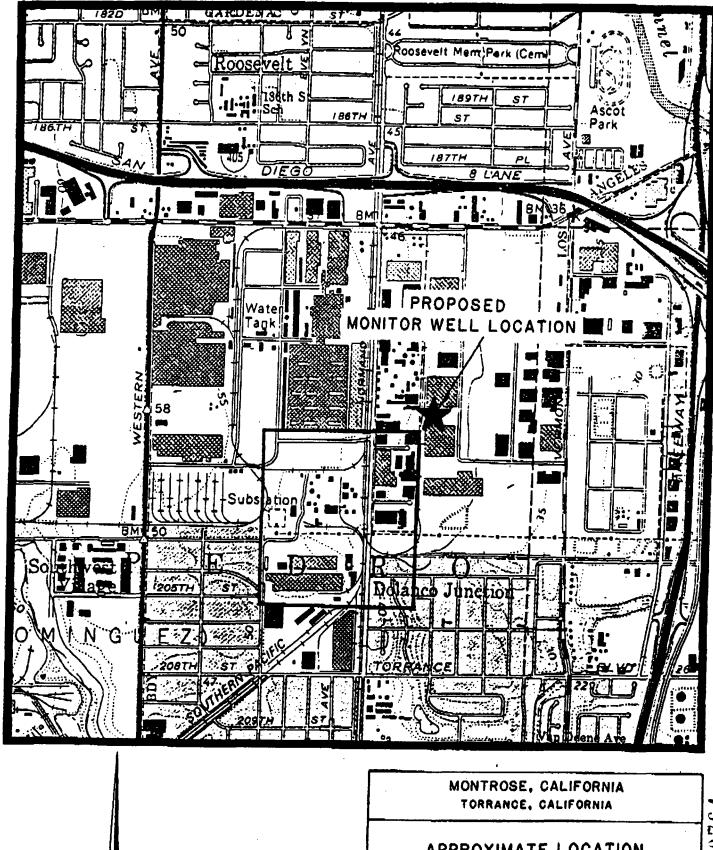
Rush N. Boynton Hydrogeologist

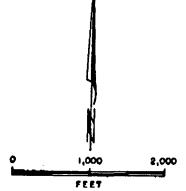
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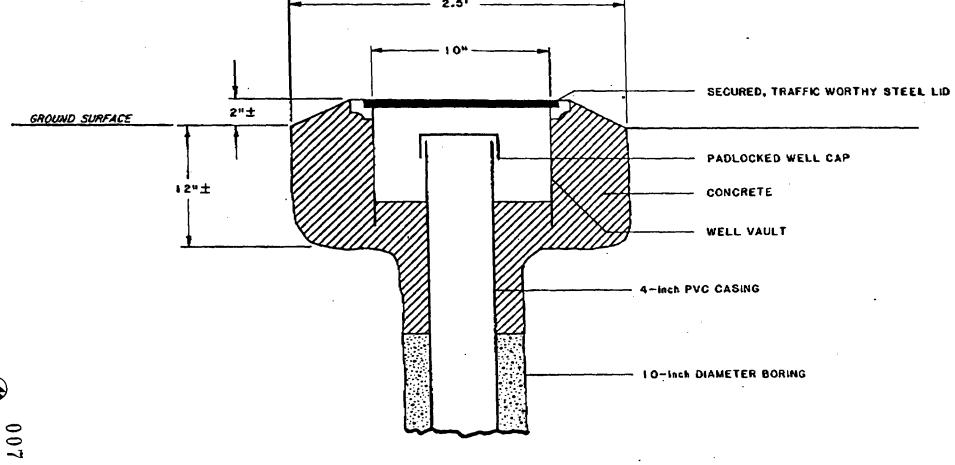
Enclosures

cc: Karl Lytz, Latham & Watkins Dan Greeno, Montrose Chemical Co. Johanna Miller, EPA Region IX

fance.ltr







000765

FIGURE 2. CROSS SECTIONAL VIEW OF MONITOR WELL COMPLETION

TESTING

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS

DEVELOPMENT

14201 FRANKLIN 'AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564

CABLE: TRUELABS

Stoney-Miller Consultants

14 Hughes, Suite B-101 CLIENT

Irvine, California 92718

Attention: Gary Carlin

SAMPLE

RESEARCH

Soils B-3 - 1' from Coca Cola, Torrance

DATE

October 17, 1988

RECEIVED

October 5, 1988

LABORATORY NO.

31002

INVESTIGATION

As Requested

	RESULTS		
Parameter		Milligrams	per Kilogram
Total Petroleum	Hydrocarbons (418.1))	858
Polychlorinated	Biphenyls (8080):		
PCB - 1016 PCB - 1221 PCB - 1232 PCB - 1242 PCB - 1248 PCB - 1254			ND <0.1 ND <0.1 ND <0.1 ND <0.1 ND <0.1 ND <0.1
PCB - 1260			ND <0.1

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

DUPLICATE

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH

Stoney-Miller Consultants, Inc.

CLIENT

SAMPLE

Soil: B-3-1'

FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 TRUELABS CABLE:

October 17, 1988 DATE

RECEIVEDOctober 5, 1988

LABORATORY NO. 31002

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Approximate

Constituent	Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether 2-Chlorophenol	660 660	ug/kg ug/kg	ND ND
1,3-Dichlorobenzene	660	ug/kg ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether 4-Methylphenol	660 660	ug/kg ug/kg	ND ND
N-Nitroso-Di-N-propylamine	660	ug/kg ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid bis(2-Chloroethyoxy)methane	3300 660	ug/kg ug/kg	ND ND
2,4-Dichlorophenol	660	ug/kg ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

LAB NUMBER: 31002
CLIENT: Stoney-Miller

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	9,400
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660		ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	\cdot N D
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	O, O	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ИD
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	7,700
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

LAB NUMBER: 31002
CLIENT: Stoney-Miller

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit* ***	Concentration (ug/kg)**
Chrysene	660 ug/kg	ND
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** The detection limits were multiplied by 100X.

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES. INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS

RESEARCH

DEVELOPMENT

TESTING

FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

DATE

October 25, 1988

RECEIVED

October 17, 1988

LABORATORY NO.

31100

CLIENT

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

Soils from Coca-Cola, Torrance

INVESTIGATION

As requested

RESULTS.

MILLIGRAMS PER KILOGRAM

Sample Identification Total Petroleum Hydrocarbons (418.1) B-7-5' 2 B-7-15' <1 $B-8-2^{1}/2^{1}$ 8.686 B-8-15' <1 B-9-5' 210 B-9-15' <1 B-10-3' 1,880 B-10-10' <1 B-11-8'

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Tula

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

CLIENT Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01 Irvine, CA 92718

Irvine, CA 92718
Attention: Gary Carlin

Attention: Gary Carlin

SAMPLE

B-7-5'

DATE

October 25, 1988

RECEIVED

October 17, 1988

LABORATORY NO.

31100-1

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
l,4-Dichlorobenzene	660	ug/kg	. ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	ND
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg ug/kg	ND
2-Chloronaphthalene	660	ug/kg ug/kg	ND
2-Nitroaniline	3300	• •	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	
3-Nitroaniline		ug/kg	ND
	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND .
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ection mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
<pre>Indeno(1,2,3-cd)pyrene</pre>	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE 5 10

B-10-3'



14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

October 25, 1988

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October 17, 1988

LABORATORY NO.

31100-7

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol bis(2-Chloroethyl) ether	660	ug/kg	ND
	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene 1,4-Dichlorobenzene	660	ug/kg	ND
	660	ug/kg	ND
Benzyl Alcohol 1,2-Dichlorobenzene	1300	ug/kg	ND
2-Methylphenol	660	· ug/kg	ND
	660	ug/kg	ND
bis(2-Chloroisopropyl) ether 4-Methylphenol	660	ug/kg	ND
	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol 1,2,4-Trichlorobenzene	660	ug/kg	ND
	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**	
Naphthalene	660	ug/kg	14,400	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	10,500	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg ug/kg	ND	
Diethylphthalate	660	ug/kg ug/kg		
4-Chlorophenyl phenyl ether	660	ug/kg ug/kg	ND	
Fluorene	660		ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg ug/kg	ND	
4-Bromophenyl phenyl ether	660		ND	
Hexachlorobenzene	660	ug/kg ug/kg	ND ND	
Pentachlorophenol	3300			
Phenanthrene	660	ug/kg ug/kg	ND	
Anthracene	660		10,200	
Di-n-butylphthalate	660.	ug/kg	ND	
Fluoranthene	6.60	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a) anthracene	660	ug/kg ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg ug/kg	ND ND	
== (= sand mand m) Engineere	000	ug/Ng	MD	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg.	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND .
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 C A B L E : T R U E L A B S

CLIENT

Stoney-Miller Consultants, Inc.

14 Hughes, Suite Bl01

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-7-15'

DATE

October 25, 1988

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October 17, 1988

LABORATORY NO.

31100-2

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophencl	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	. ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	ND
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND .
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS

ESEARCH - DEVELOPMENT - TESTIN

Stoney-Miller Consultants, Inc. CLIENT 14 Hughes. Suite B101

14 Hughes, Suite B101 Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

 $B-8-2^{1}/2^{1}$

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE

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LABORATORY NO.

31100-3

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660.	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	. ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration(ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ИД
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Approximate Detection Limit*	
Chrysene	660 ug/kg	ND
Di-n-octyl phthalate	660 ug/kg	ND
Benzo(b)fluoranthene	660 ug/kg	ND
Benzo(k)fluoranthene	660 ug/kg	ND
Benzo(a)pyrene	660 ug/kg	ND
Indeno(1,2,3-cd)pyrene	660 ug/kg	ND
Dibenz(a,h)anthracene	660 ug/kg	ND
Benzo(g,h,i)perylene	660 ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	55,500
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	32,600
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	16,600
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	15,100
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	32,400
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	10,100
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND,

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT

DATE

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14201 FRANKLIN TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

October 25, 1988

Stoney-Miller Consultants, Inc. CLIENT

14 Hughes, Suite B101 92718

Irvine, CA

Attention: Gary Carlin

SAMPLE

October 17, 1988 LABORATORY NO.

B-8-15'

31100-4

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660 -	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	· ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND .
1,2,4-Trichlorobenzene	660	ug/kg	ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Det	oximate ection mit*	Concentration (ug/kg)**
Naphthalene	660	ug/kg	ND
4-Chloroaniline	1300	ug/kg	ND
Hexachlorobutadiene	660	ug/kg	ND
4-Chloro-3-methylphenol	1300	ug/kg	ND
2-Methylnaphthalene	660	ug/kg	ND
Hexachlorocyclopentadiene	660	ug/kg	ND
2,4,6-Trichlorophenol	660	ug/kg	ND
2,4,5-Trichlorophenol	660	ug/kg	ND
2-Chloronaphthalene	660	ug/kg	ND
2-Nitroaniline	3300	ug/kg	ND
Dimethyl phthalate	660	ug/kg	ND
Acenaphthylene	660	ug/kg	ND
3-Nitroaniline	3300	ug/kg	ND
Acenaphthene	660	ug/kg	ND
2,4-Dinitrophenol	3300	ug/kg	ND
4-Nitrophenol	3300	ug/kg	ND
Dibenzofuran	660	ug/kg	ND
2,4-Dinitrotoluene	660	ug/kg	ND
2,6-Dinitrotoluene	660	ug/kg	ND
Diethylphthalate	660	ug/kg	ND
4-Chlorophenyl phenyl ether	660	ug/kg	ND
Fluorene	660	ug/kg	ND
4-Nitroaniline	3300	ug/kg	ND
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND
N-Nitrosodiphenylamine	660	ug/kg	ND
4-Bromophenyl phenyl ether	660	ug/kg	ND
Hexachlorobenzene	660	ug/kg	ND
Pentachlorophenol	3300	ug/kg	ND
Phenanthrene	660	ug/kg	ND
Anthracene	660	ug/kg	ND
Di-n-butylphthalate	660	ug/kg	ND
Fluoranthene	660	ug/kg	ND
Pyrene	660	ug/kg	ND
Butyl benzyl phthalate	660	ug/kg	ND
3,3'-Dichlorobenzidine	1300	ug/kg	ND
Benzo(a)anthracene	660	ug/kg	ND
bis(2-ethylhexyl)phthalate	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	ND
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS RESEARCH

DEVELOPMENT

Stoney-Miller Consultants, Inc. CLIENT

14 Hughes, Suite Bl01 92718 Irvine, CA

Attention: Gary Carlin

SAMPLE

B-9-5'

14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: \TRUELABS

DATE

October 25, 1988

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October 17, 1988

LABORATORY NO.

31100-5

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)**
Phenol bis(2-Chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl Alcohol 1,2-Dichlorobenzene 2-Methylphenol bis(2-Chloroisopropyl) ether 4-Methylphenol N-Nitroso-Di-N-propylamine Hexachloroethane Nitrobenzene Isophorone	660 660 660 660 660 660 660 660 660 660	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND ND ND ND ND ND ND ND ND ND N
2-Nitrophenol 2,4-Dimethylphenol Benzoic Acid bis(2-Chloroethyoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene	660 660 3300 660 660	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	ND ND ND ND ND ND

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)** ND
Chrysene	660	ug/kg	
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
<pre>Indeno(1,2,3-cd)pyrene</pre>	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.
- *** Detection limits are multiplied by 10X.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-9-15'



14201 FRANKLIN AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 • 730-6239 AREA CODE 213 • 225-1564 CABLE: TRUELABS

DATE October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-6

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**
Phenol	660	ug/kg	ND
bis(2-Chloroethyl) ether	660	ug/kg	ND
2-Chlorophenol	600	ug/kg	ND
1,3-Dichlorobenzene	660	ug/kg	ND
1,4-Dichlorobenzene	660	ug/kg	ND
Benzyl Alcohol	1300	ug/kg	ND
1,2-Dichlorobenzene	660	ug/kg	ND
2-Methylphenol	660	ug/kg	ND
bis(2-Chloroisopropyl) ether	660	ug/kg	ND
4-Methylphenol	660	.ug/kg	ND
N-Nitroso-Di-N-propylamine	660	ug/kg	ND
Hexachloroethane	660	ug/kg	ND
Nitrobenzene	660	ug/kg	ND
Isophorone	660	ug/kg	ND
2-Nitrophenol	660	ug/kg	ND
2,4-Dimethylphenol	660	ug/kg	ND
Benzoic Acid	3300	ug/kg	ND
bis(2-Chloroethyoxy)methane	660	ug/kg	ND
2,4-Dichlorophenol	660	ug/kg	ND
1,2,4-Trichlorobenzene	660	ug/kg	ND

^{*} Detection limits may vary with the type of sample and with the concentration of other species present.

^{**} ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg ug/kg	ND	
Diethylphthalate	660	ug/kg ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg ug/kg		
N-Nitrosodiphenylamine	660		ND ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate		ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	660	ug/kg	ND	
Benzo(a)anthracene	1300	ug/kg	ND	
	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ection mit*	Concentration (ug/kg)**
Chrysene	660	ug/kg	
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-10-10'



TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 CABLE: TRUELABS

DATE October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-8

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
l,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND	

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	.660	ug/kg	ND	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
bis(2-ethylhexyl)phthalate	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

Constituent	Dete	ximate ction mit*	Concentration (ug/kg)** ND
Chrysene	660	ug/kg	
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	` 660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- Detection limits may vary with the type of sample and with the concentrations of other species present.
- ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager

Inorganic Chemistry

TRUESDAIL LABORATORIES, INC.

CHEMISTS - MICROBIOLOGISTS - ENGINEERS DEVELOPMENT RESEARCH TESTING

Stoney-Miller Consultants, Inc.

CLIENT 14 Hughes, Suite B101

Irvine, CA 92718

Attention: Gary Carlin

SAMPLE

B-11-8'

14201 FRANKLIN . AVENUE TUSTIN, CALIFORNIA 92680 AREA CODE 714 . 730-6239 AREA CODE 213 . 225-1564 TRUELABS CABLE:

DATE October 25, 1988

RECEIVED October 17, 1988

LABORATORY NO.

31100-9

INVESTIGATION

Base Neutral Acid Extractables by GC/MS (EPA 8270)

RESULTS

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Phenol	660	ug/kg	ND	
bis(2-Chloroethyl) ether	660	ug/kg	ND	
2-Chlorophenol	600	ug/kg	ND	
1,3-Dichlorobenzene	660	ug/kg	ND	
1,4-Dichlorobenzene	660	ug/kg	ND	
Benzyl Alcohol	1300	ug/kg	ND	
1,2-Dichlorobenzene	660	ug/kg	ND	
2-Methylphenol	660	ug/kg	ND	
bis(2-Chloroisopropyl) ether	660	ug/kg	ND	
4-Methylphenol	660	ug/kg	ND	
N-Nitroso-Di-N-propylamine	660	ug/kg	ND	
Hexachloroethane	660	ug/kg	ND	
Nitrobenzene	660	ug/kg	ND	
Isophorone	660	ug/kg	ND	
2-Nitrophenol	660	ug/kg	ND	
2,4-Dimethylphenol	660	ug/kg	ND	
Benzoic Acid	3300	ug/kg	ND	
bis(2-Chloroethyoxy)methane	660	ug/kg	ND	
2,4-Dichlorophenol	660	ug/kg	ND	
1,2,4-Trichlorobenzene	660	ug/kg	ND '	

Detection limits may vary with the type of sample and with the concentration of other species present.

ND = Not detected, below detection limit.

Constituent	Approximate Detection Limit*		Concentration (ug/kg)**	
Naphthalene	660	ug/kg	ND	
4-Chloroaniline	1300	ug/kg	ND	
Hexachlorobutadiene	660	ug/kg	ND	
4-Chloro-3-methylphenol	1300	ug/kg	ND	
2-Methylnaphthalene	660	ug/kg	ND	
Hexachlorocyclopentadiene	660	ug/kg	ND	
2,4,6-Trichlorophenol	660	ug/kg	ND	
2,4,5-Trichlorophenol	660	ug/kg	ND	
2-Chloronaphthalene	660	ug/kg	ND	
2-Nitroaniline	3300	ug/kg	ND	
Dimethyl phthalate	660	ug/kg	ND	
Acenaphthylene	660	ug/kg	ND	
3-Nitroaniline	3300	ug/kg	ND	
Acenaphthene	660	ug/kg	ND	
2,4-Dinitrophenol	3300	ug/kg	ND	
4-Nitrophenol	3300	ug/kg	ND	
Dibenzofuran	660	ug/kg	ND	
2,4-Dinitrotoluene	660	ug/kg	ND	
2,6-Dinitrotoluene	660	ug/kg	ND	
Diethylphthalate	660	ug/kg	ND	
4-Chlorophenyl phenyl ether	660	ug/kg	ND	
Fluorene	660	ug/kg	ND	
4-Nitroaniline	3300	ug/kg	ND	
4,6-Dinitro-2-methylphenol	3300	ug/kg	ND	
N-Nitrosodiphenylamine	660	ug/kg	ND	
4-Bromophenyl phenyl ether	660	ug/kg	ND	
Hexachlorobenzene	660	ug/kg	ND	
Pentachlorophenol	3300	ug/kg	ND	
Phenanthrene	660	ug/kg	ND .	
Anthracene	660	ug/kg	ND	
Di-n-butylphthalate	660	ug/kg	ND	
Fluoranthene	660	ug/kg	ND	
Pyrene	660	ug/kg	ND	
Butyl benzyl phthalate	660	ug/kg	ND	
3,3'-Dichlorobenzidine	1300	ug/kg	ND	
Benzo(a)anthracene	660	ug/kg	ND	
<pre>bis(2-ethylhexyl)phthalate</pre>	660	ug/kg	ND	

^{*} Detection limits may vary with the type of sample and with the concentrations of other species present.

^{**} ND = Not detected, below detection limit.

INVESTIGATION: Base Neutrals Acid Extractables by GC/MS (EPA 8270)

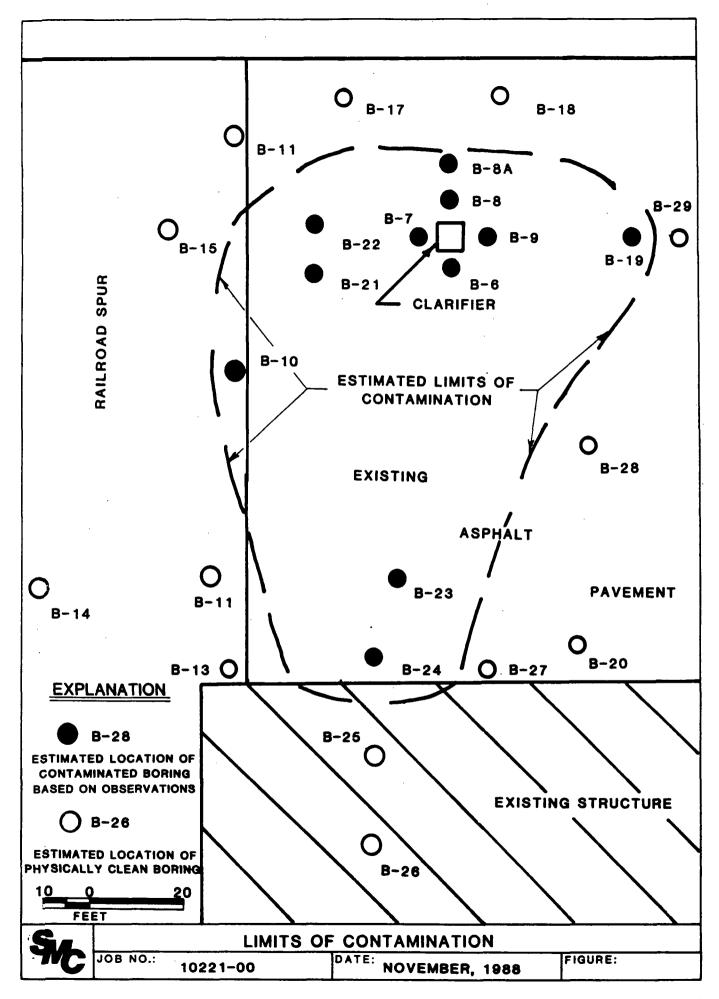
Constituent	Dete	ximate ction mit*	Concentration (ug/kg)** ND
Chrysene	660	ug/kg	
Di-n-octyl phthalate	660	ug/kg	ND
Benzo(b)fluoranthene	660	ug/kg	ND
Benzo(k)fluoranthene	660	ug/kg	ND
Benzo(a)pyrene	660	ug/kg	ND
Indeno(1,2,3-cd)pyrene	660	ug/kg	ND
Dibenz(a,h)anthracene	660	ug/kg	ND
Benzo(g,h,i)perylene	660	ug/kg	ND

- * Detection limits may vary with the type of sample and with the concentrations of other species present.
- ** ND = Not detected, below detection limit.

Respectfully submitted, TRUESDAIL LABORATORIES, INC.

Julia Nayberg, Manager Inorganic Chemistry

Julia



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DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOWS/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	N PLACE DR	BORING NO. 2-6	LABORATORY	DEPTH (FEET)
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DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDISTURBED Sample	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY Density (PCF)		LABORATO TEST	DEPTH (FEET)
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DEPTH (FEET)	BRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY IN DENSITY (PCF)	2. 5	LABORATORY TEST	DEP
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OB	NO.:						•	LOG OF BORING	FIGURE:	

								HOD OF DRILLING: ARG RAGIA LOCATION: MARK THAT BELAND TION:	S.	1
(FEET)	GRAPHIC LOG	_	BLOWS/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY IN DENSITY (PCF)	BORING NO. 3-7	LABORATORY	DEPTH (FEET)
								ASAHALT & 2" - C" BAZ		
I								Charly sitt Black, Moist		1
4				\searrow		L	 	AFAMAT & 2" - C" BAIL CHAY V SILT, BLACK, MOINT FIRM STAIN TOOK. TO 5"	ļ	<u> </u>
4								705'	<u> </u>	<u> </u>
5				\times				@ 5' 5,67/ SAND, 1.72 Brown NOINT		5-
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25-										25
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40										40
JOB	NO.:	L	L	<u> </u>		1	1	LOG OF BORING	FIGURE:	170

DATE	ОВ	ERVI	ED: _	10/11	150		METH	IOD OF DRILLING: HELE KILL	S	
LOG	3ED I	BY: 🚅	7C.		GROU	ND E	LEVA	TION: MAN DEFE FOR -T	rwh 3	C
DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOWS/FOOT	UNDISTURBED Sample	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. <u>B-10</u> DESCRIPTION	LABORATORY TEST	DEP (FE
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JOB	NU.:				L_			LOG OF BORING	FIGURE:	

•	E OB			11/2/	44		METH	LOCATION: (NE - 1014 TO	<u> </u>	
LOG	GED !	v: <u>6</u>	ジニ		BROU		LEVA	TION:		C
DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDISTURBED SAMPLE	BULK BAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY Denbity (PCF)	BORING NO. B-13 DESCRIPTION	LABORATORY TEST	DEPTH (FEET)
10 15 20 25 30 35 40 40 A				n		•	• • • • • • • • • • • • • • • • • • •	Gravel - 3" Clay, Dark Brown, Most Stiff Strake - Stark Light Brown. Single Stiff ton Silty Mayber once. 9'Endot - Source		10-
108	NO.:				工	· · · · · ·	·	LOG OF BORING	FIGURE:	

DATE	E 088	BERVI	ED: _		~×		MET	LOCATION: 1000 TOLER	<u></u> 3	
LOG	GED !	BY:	77		BROU	ND E		TION:		C
DEPTH (FEET)	BRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDIGTURBED Sample	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. 14 B-14 DESCRIPTION	LABORATORY TEST	DEPTH (FEET)
10	VWO	CLA	016		TOR	NOS	A NI	Grawl + Pocked fills dry brown siltyclay 1" Siltyclay light from dry, hard. The yellow mount of the grown Dark from strictly word of Silted tare. dry Sample The Solve of the solve of		10-
35- 	NO.:							LOG OF BORING	FIGURE:	35-

DATE	084	ERVE	D: _	427	5 4		METH	LOCATION: Cora Cale Tox	S. S.	
LOG	BED I	Y:	- (2) -		ROU	ND E		TION:		C
DEPTH (FEET)	BRAPHIC LOG	CLABBIFICATION	BLOW8/FOOT	UNDIGTURBED Bample	BULK BAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY Dengity (PCF)	BORING NO. B-15 DESCRIPTION	ABORATORY TEST	DEPTH (FEET)
5								Davic brown clay, stiff Slightly moist concerns		5
10-								10050, 100 - 10050, 10	*	10-
15	•								:	15-
20 -										20-
25-										25-
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35-										35-
40- JOB	NO.:							LOG OF BORING	FIGURE:	40-

DATE	088	ERVE	:D: _! 5 (E	1/2/	23		METI	LOCATION: (Section - Total	4	4
LOG		7			ROU	ND E	LEVA	TION:		U
OEPTH (FEET)	GRAPHIC LOG	CLASSIFICATIO	810W8/F00T	UNDIGTURBED SAMPLE	BULK BAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY Denbity (PCF	BORING NO. 13-16 DESCRIPTION	LABORATORY TEST	DEPTH (FEET)
								Garald Cill Dark Brown Clay, work deuse,		-0-
5-					•			3' Tan Sill Chargery		5 -
10-				·						10-
15					•			91 E03		15-
20-										20-
25 —		:								25
30-										30
35-								·		35
40- JOB								LOG OF BORING	FIGURE:	40

				01/ 7 /	ज् ३		METI	LOCATION: FROM E CO.	- 3	
LOG		BY: _	Zu .	<u> </u>	ROU	ND E		YION:	7.0	C
DEPTH (FEET)	GRAPHIC LOG	CLASSIFICATION	BLOW8/FOOT	UNDIGTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO.	LABORATORY TEST	DEPTH (FEET)
-								Residentioner Clay word covering Brown		, , ,
8 - 1		/						THUS Series dryn 2002 Signally The providences on the 5%		5-
10-								9 E.3	,	10 -
15										16-
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1 1										
25-					:					25-
30-										30-
35-										35-
40-				·						40-
TOD	NO.:							LOG OF BORING	FIGURE:	

GROUND ELEVATION: UNDISTURSED GRAPHIC LOG BULK SAMPLE BLOW8/FOOT CLASSIFICATION MOISTURE CONTENT (%) DEPTH (FEET) DEPTH (FEET) BORING NO. 18-18 TEST Aspha !-Faul Brown Clay Noist Coses, Suprive 5' sample Tor oose 1-4 selfredor 91 E 03 10 10 20 20 25. 25 30 30 35 35 FIGURE: JOB NO.: LOG OF BORING

.

DATE	081	BERVI	ED: _	1/2/0	14		METI	LOCATION:	- 8	
LOG	BED	BY: 👱	2.F		BROU	ND E	LEVA	TION:		C
DEPTH (FEET)	BRAPHIC LOG	CLABBIFICATION	1004/8M018	UNDIGTURBED Sample	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. 15-19 DESCRIPTION B-19	LABORATORY TEST	DEPTH (FEET)
5 - 10 - 1								Black clay cose Med No. 5 Black clay cose Med No. 5 Graph 15 The 15		5
15								7 9' Ec =		15-
25-									•	25-
30-										30-
40- JOB	NO.:					,		LOG OF BORING	FIGURE:	40-

DATE	084	ERVI	ED: _	172/	33		METI	LOCATION:	Cont &	
LOGG	DED I	BY: _	6:16		BROU	ND E		TION:	74	C
0EPTH (FEET)	GRAPHIC LOG	CLABBIFICATION	BLOW8/FOOT	UNDIGTURBED Sample	BULK BAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENBITY (PCF)	BORING NO. 18-20 DESCRIPTION	<u> </u>	DEPTH (FEET)
-								Clay, noist, dense, dovic Brown	n	-
8 -						-		C' de la casa		5-
10-								C' tan 1005+ 7' samp'd = 508		10-
15 -				- 1						15~
										-
20										20 -
25-									,	25-
30-										30-
35-										35-
-										
JOB	NO.:			L	+	<u> </u>	<u> </u>	LOG OF BORING	FIGURE:	40-

DAT	DATE OBSERVED: 10 10 4 METHOD OF DRILLING: Hand Form									
LOG	GED 1	BY:	ارع جي		BROL	ND E	LEVA	TION:		C
DEPTH (FEET)	BRAPHIC LOG	CLASSIFICATION	1004/8M018	UNDIGTURGED SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY Density (PCF)	BORING NO, 19 LA	ABORATORY TEST	DEPTH (FEET)
10 - 15 - 20 - 35 - 35 - 40 - JOB	NO.:							- Stysically Clean = 5.22+ To look they continued boring 11/9/38 continued boring 12 foot 8 ray green sitty clay, 5/15h try moist, odd eday. 15' rock forces For3	FIGURE:	5 10 18 20 25 30 35 40

DATE	DATE OBSERVED: 11/ 1/6. METHOD OF DRILLING: Hara Free LOCATION: Torrest To Free									
LOG	SED 1	BY: <u>/</u>	2 8 6	<u> </u>	BROU	ND E	LEVA	TION:	70	C
DEPTH (FRET)	GRAPHIC LOG	CLASSIFICATION	BLOW8/F00T	UNDISTURBED	BULK SAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. 13-22 DESCRIPTION	ABORATORY TEST	DEPTH (FEET)
					·			Black, clay roist, slivney		-
6								offer consequences		5
10 -										10-
16 -					•					16
20 -			·							20-
25 —										26-
30-										30-
35-									,	35-
40-	NO.:							LOG OF BORING	FIGURE:	40-

METHOD OF DRILLING: Hare - were LOCATION: EVATION: IN PLACE DRY DENSITY (PCF) GRAPHIC LOG BLOW8/FOOT UNDIGTURBED BULK SAMPLE CLASSIFICATION MOISTURE CONTENT (%) DEPTH (FEET) DEPTH (FEET) BORING NO. Z ABORATORY TEST 10 10 20 20 25 25 30 30 35 40 FIGURE: JOB NO.: LOG OF BORING

BORING NO. 3 BO	DATE OBSERVED: METHOD OF DRILLING: TOTICE COLLEGE										
Price y in 3 Price y in 3 7! Light brown si Hyckey, dry, loose, over liter solvent or pend the name to Fors 11/2/48 10. Told 11/2/48 11/2/44 20. Storped ~ 12 feet 20.	LOB	e ED	BY: _	115		BROL	ND E	LEVA	TION:		C
Prize y Class 15 7' Light brown Si Hycley, 2ry, loose, over like solvent or paint turner 10' Fob 11/2/88 11/9/88 continued chilling over storred ~ 12feet 18.	DEPTH (FEET)	HIC LOG HIC LOG BANFLE BANFLE BANFLE BOY (PCF)				MOISTURE CONTENT (%)	IN PLACE DRY DENSITY (PCF)	BORING NO. 7 24	LABORATORY TEST	DEPTH (FEET)	
36- 40- JOB NO.: LOG OF BORING FIGURE:	20-	NO.:							Physically Clar of Physical y Clary, loose, oder like solvent or paint thinner 10' For 11/3/88 Allalyy Continued Critting of the stopped ~ 12 feet	FIGURE:	10-

COCK COLA TOUR TO

DATE OBSERVED: 11/4/40 METHOD OF DRILLING: HALL AUCTOR LOCATION: Town of										
LOGG	ED I	Y: _	£ 1/6		BROU	ND E	LEVA	TION:		C
0EPTH (FEET)	APHIC BABIFIC BAMPLI BAMPLI BAMPLI BAMPLI BAMPLI BAMPLI BLACE			MOISTURE CONTENT (%)	IN PLACE DRY DENBITY (PCF)	BORING NO. 28 DESCRIPTION B-25	LABORATORY TEST	DEPTH P (FEET)		
5-								Concrete 4" Bown, s.w. Clay, clouse, Bise 4" CLAY, Bickenin, si moist, stiff down, sand F tom. 61 bandy Clay / Light Brown, laxe, dry, sand F.		5 10 -
15										16-
25 — -			•						·	25-
35 - 1 - 1 - 1										35-
40- JOB	NO.:	<u> </u>			_			LOG OF BORING	FIGURE:	40-

DATI	LOGGED BY: LOCATION: LOCATION:									
LOG	GED I	84: <u>/</u>	تي ار	<u>-</u> •	BROL	IND E	LEVA	TION:	7	C
DEPTH (FRET)	BRAPHIC LOG	CLASSIFICATION	810W8/F00T	UNDIGTURBED	BULK BAMPLE	MOISTURE CONTENT (%)	IN PLACE DRY DENBITY (PCF)	BORING NO. 2/2/26 DESCRIPTION	LABORATORY TEST	DEPTH (FEET)
10 15 20 25 30 35 35		19					30	Concrete ~ 6" Brown, wod. woist clay, deuse with Svorel Soy Sandy Clay, davk Brown, Sl. woist of Gener 5' Sandy Clay, light Brown Dogo Dry, 71 Tors		TO 15 10 15 10 15 10 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
40- JOB	NO.:		l					LOG OF BORING	FIGURE:	40-



U.S. Technic Environmental Consulting, Inc.



404 CA

March 4, 1991

Mr. Ed Todd Coca-Cola Enterprises Inc. One Coca-Cola Plaza, N.W. 752 Atlanta, Georgia 30313

RE: BRENT PETROLEUM.

Dear Ed:

In response to a FAX from Jeff Simmons (Attachment No. 1) received on February 26, 1991, I have reviewed the laboratory data supplied by Arche' Engineering Laboratories. The analytical results indicate no volatile organic compounds (VOCs), in this case the sum of the benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations, above the limit established for Brent Petroleum (50 ppm).

One sample collected in October 1989 was analyzed for VOCs by EPA method 8240. The results of this analysis indicated less than 6 ppm total VOCs. Four composite samples (collected by USTEC in January 1990) of the material removed from the Carson site and shipped to Brent for incorporation into asphalt were analyzed for VOCs by EPA method 8010 which indicated no VOC concentrations above analytical detection limits. The results of these samples are included as Attachment No. 2.

Should you have any questions regarding this data, please call me at (602) 829-6311.

Sincerely,

U.S. TECHNICAL ENVIRONMENTAL CONSULTING, INC.

Steven M. Myers, R.G.

thewis M. Myers

President

/weh

Attachments

Copies to: Addressee (3)

ATTACHMENT NO. 1

Goca-Gola Enterprises A Bottling System

Post-it" brand fax trans-"tal	memo 7671 # of pages > 2
"Steve Myers"	Seff Simmors
USTEC.	Carce
Dept.	Phone #
102-829-6315	Fax #

MEMORANDUM

VIA TELECOPY

TO:

Steve Myers

FROM:

Jeff Simmons

DATE:

February 26, 1991

RE:

Brent Petroleum

Earlier we discussed the shipment of the non-hazardous soil to Brent Petroleum from the Carson, California facility.

Evidently, when Brent Petroleum vacated their leased property, they left three stock piles of dirt. The attorney representing the landlord sent me the attached soil sample reports. I would be interested in your comments on the lab results after you have reviewed them. Since Brent Petroleum was not to except any soils with a Volatile Organic Compounds in excess of 50 p.p.m., the lab results were interesting. If we have any lab data showing the constituency of the soils we sold to Brent Petroleum, please forward them to me.

Any other assistance or comments would be appreciated.

Thank you for your cooperation in this matter.

JGS/jac memof.doc49

cc: Mr. Ed Todd

Mr. Raul Rameriz



Report to:

Mooraco

P.O. Box 9326

Long Beach, CA 90810

Attention:

Mr. Edward Moore

Project:

1008 Cervera Avenue

Long Beach, CA

Subject:

SOIL SAMPLING AND TESTING FOR POSSIBLE

GASOLINE CONTAMINATION

Laboratory Number:

G0-10-004

Dates

October 15, 1990

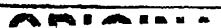
On October 9, 1990, acting at the request and authorization of Mr. Ed Moore of Mooreco, our technicians Jay Tan and John Mendoza were dispatched to this project. They obtained soil samples from three (3) different stock piles for testing for contamination. Samples were collected 18 inches or more below the existing surfaces, with excavations made using a hand shovel.

A Photoionization Detector (580 B OVM, made by Thermo Environmental Instruments) was used to measure organic vapor in the head-space over the sample.

The OVM readings ranged from 3 ppm to 99 ppm, and the locations of these samples and OVM head-space readings are shown on the attached location map. The OVM calibration was checked on October 9, 1990 using 100 ppm isobutylene standard gas, reference factor 1.00.

Soil samples were collected in Brass Tubing, capped with aluminum foil, covered with a plastic cap and transported under refrigeration (blue ice in an ice chest) to an EPA certified laboratory under a Chain-of-custody Receipt. A copy of that Receipt is attached.

Samples were tested for Total Petroleum Hydrocarbons per EPA Method 8015 (modified). Selected samples were tested for Benzene, Toluene, Ethylbenzene and Xylene, based on TPH results per EPA Method 8020.





CHAIN OF CUSTODY RECORD

LABORATORY NUMBER: <u>G0-10-004</u> JOB NUMBER: <u>90-10-018</u>
PROJECT: 1008 CERVERA AUE. LONG BEACH - CAL.
ITEMS OF EVIDENCE (LIST EACE SEPARATE ITEM OR GROUP OF ITEMS) STOCK PILE I SMAPLE NOT AND NOZ.
STOCK PILE IZ: SAMPLE HO! and HO 2 BIG STOCK PILE: SAMPLE NO! NO.2 and NO.3
The above material was obtained at: 1008 CERVERD AVE
LONG BENCH - CA.
by: J. TAN - J. MENDOZA
on (time & date): 10-9-1990 1cm 2".
The material was transported from the above location to:
ASSICIPTED LABORATURIES.
DRANGE - CAL.
by:
on (time & date): / // // // // // // // // // // /
received by: (/////
method of transfer:
(hand-to-hand, UPS, mail, etc.)
The material was transported from the preceding location to:
on (time & date);
received by:
(hand-to-hand, UPS, mail, etc.)
VENDOR/SUB-CONTRACTOR INSTRUCTIONS
Continuation of this chain of custody record is requested. Yes if No !
We request the following tests ATOH FOR ALL SAMPLES (TOTAL OF T)
BTEX FOR STOCK PILE I SAMPLE NOTALL NO.
·····································

Mooreco/G0-10-004

October 15, 1990

Test results are summarized as follows:

	•	Stock Pile !		Stock F	Big Stock Pile			
Int	<u>temples</u>	1	2	1	2	1	2	3
Tetal Hydrocarbon, PPH		215	166	1,180	260	75	44	¥.D.
Benzone, PPH		w.D.	N.D.	N.D.	H.D.	••	**	
Teluene, PPM		#.D.	N.D.	H.D.	N.D.	••	••	••
Ethyl Benzene, PPH		0.4	0.3	2	N.D.	••	••	••
Total Xylane, PPH		0.7	0.7	2	1	••,	••	••
Vapor in Read-space, * PP	N	73	42	90	33	13	5	3

N.D. = Not Detected

Note: Samples are not considered to be representative random samples of the entire stock pile, because the materials observed in the stock pile were not mixed thoroughly. However, we believe that the samples taken, based on subjectively evaluation at the time of sampling, represent the range of values expected throughout.

Certified test results from these samples are appended hereto.

This series of determinations was performed in accordance with denerally accepted tests methods and procedures. No other warranty, express or implied, is given.

The opportunity to be of service to you is sincerely appreciated. If you have any questions regarding this report, or if we may be of further assistance to you, please call.

Very truly yours, ARCHE' ENGINEERING LABORATORIES

Jay H. Tan Staff Engineer

JHT/KTB/cj:2 # 90-10-018

T. Blaufuss, P.E. # C-16501

Quotechnical Engineer # 149

Certificates expire June 30, 1993

Attachments:

Certified Test Results Location Map Copy of Chain-of-Custody Recei

Calibrated to 100 PPM Isobutylene, reference factor 1.00.



ASSOCIATED LABORATORIES

806 North Batavia - Orange. California \$2668 - 714/771-8900

FAX 714/538-1209

CLIENT

Arche Engineering Laboratories (3554) LABNO F95782-01
12246 Park Avenue
Santa Fe Springs, CA 90670 REPORTED 10/11/90

Attn: Jay Tan

SAMPLE

Soil

RECEIVED

10/10/90

!DENTIFICATION

Lab #G0-10-004 - Job #90-10-018

1008 Cervera Ave., Long Beach

BASED ON SAMPLE

As Submitted

	Stockpile I No. 1	Stockpile I	Stockpile IINo. 1	
Total Hydrocarbons (TPH DHS) (mg/kg)	215	166	1,180	
Benzene (mg/kg)	ND< 0.05	ND< 0.05	ND< 0.05	
Toluene (mg/kg)	ND< 0.05	ND< 0.05	ND< 0.05	
Ethyl Benzene (mg/kg)	0.4	0.3	2	
Total Xylenes (8020) (mg/kg)	0.7	0.7	2	

Date Analyzed: 10/10/90

ASSOCIATED LABORATORIES: by:

Edward S. Behare, Ph.D.

Vice President

ESB/q1

007 000825

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.



ASSOCIATED LABORATORIES

806 North Batavia - Orange. California \$2568 - 714/771-8900

FAX 714/538-1209

CLIENT

Arche Engineering Laboratories (3554) LAE

LAB NO F95782-02

12246 Park Avenue

Santa Fe Springs, CA 90670

REPORTED

10/11/90

Attn: Jay Tan

SAMPLE

5011

RECEIVED

10/10/90

IDENTIFICATION

Lab #GO-10-004 - Job #90-10-018 1008 Cervera Ave., Long Beach

BASED ON SAMPLE

As Submitted

	Stockpile II No. 2	Big Stockpile	Big Stockpile
Total Hydrocarbons (TPH DHS) (mg/kg)	260 ·	75	48
Benzene (mg/kg)	ND< 0.05		# 4 4 4
Toluene (mg/kg)	ND< 0.05		
Ethyl Benzene (mg/kg)	ND< 0.1		
Total Xylenes (8020) (mg/kg)	1		

Date Analyzed: 10/10/90

associated laboratories: by:

Edward & Behare, Ph.D.

Vice President

ESB/ql

007 000326

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.



ASSOCIATED LABORATORIES

806 North Batavia - Orange. California 82668 - 714/771-6900

FAX 714/538-1209

CLIENT

Arche Engineering Laboratories (3554)

554) LAB NO

F95782-03

12246 Park Avenue

Santa Je Springs, CA 90670

REPORTED

10/11/90

Attn: Jay Tan

SAMPLE

Soil

RECEIVED

10/10/90

IDENTIFICATION

Lab #G0-10-004 - Job #90-10-018

1008 Cervera Ava., Long Beach

BASED ON SAMPLE

As Submitted

Big Stockbile #3

Total Hydrocarbons (TPH DHS)

ND<10 mg/kg

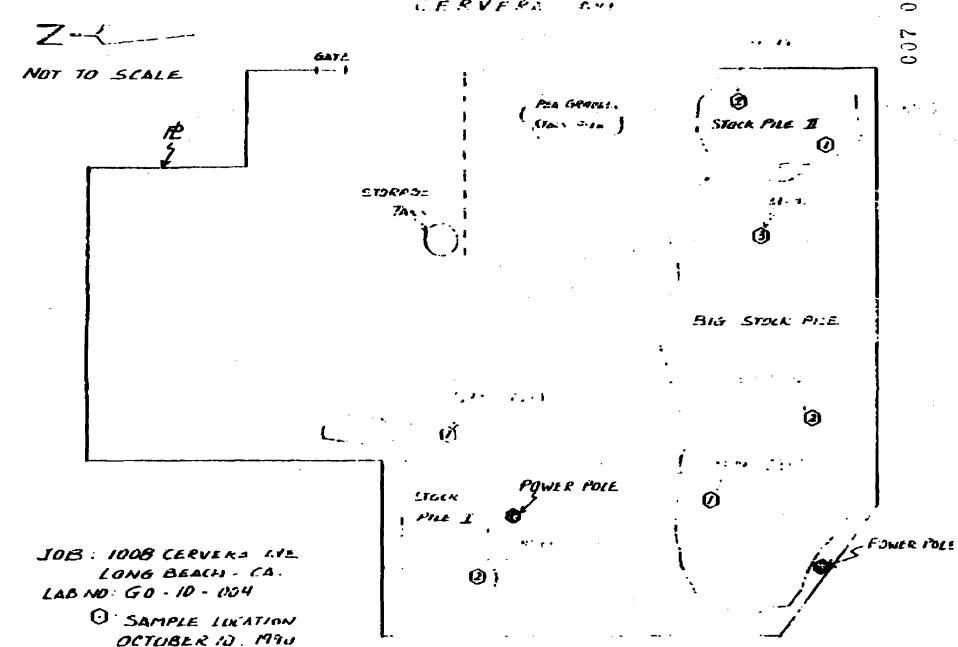
ASSOCIATED LABORATORIES: by:

Edward S. Behare, Ph.D.

Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.



ATTACHMENT NO. 2



Enseco - CRL / South Coast

7440 Lincoln Way . Garden Grove, CA 92641 (714) 898-6370 * (213) 598-0458 * (800) LAB-1-CRL

FAX: (714) 891-5917

Laboratory Report

TERRA TECH LABS, INC. 16371 Gothard Street, Unit "G" Huntington Beach, CA 92647

ATTN: MR. GERARD HERRO

Date Analyzed:

Date Sampled: 22-SEF-1989 Date Sample Rec'd: 25-SEP-1989 2-OCT-1989

Analysis No.: G-8926802-001

Sample Type: SOLID

Project: 1095-2

Sample ID: SOLVENT TRENCH

Purgeable Organics, EPA 8240

Units: ug/kg

Parameter	Kesult	Blank	Detection Limit
Chloromethane	ИD	ND	50 50
Bromomethane	סא	ND	50
Vinyl Chloride	ND	ND	5 0
Chloroethane	ND	ND	50
Methylene Chloride	ND	ND	20
Acctone	ND	ND	50
Carbon Disulfide	ND	ИD	20
1,1-Dichloroethene	ND	ND	20
1,1-Dichloroethane	ND	ND	20
trans-1,2-Dichloroethene	ND	ND	20
Chloroform	ND	ND	20
1,2-Dichloroethane	ND	ND	20
2-Butanone	ND	ND	50
1,1,1-Trichloroethane	ND	ND	20
Carbon Tetrachloride	סמ	ND	20
Vinyl Acetate	ND	MD	50
Bromodichloromethane	MD	ND	20
1,2-Dichloropropane	ND	ND	20
trans 1,3 Dichloropropene	ИD	ND	20
Trichloroethene	ND	ND	20
Dibromochloromethane	ИD	ND	20
1,1,2-Trichloroethane	MD	ND	20
Benzene	1,000.	ND	20
cis-1,3-Dichloropropene	ND	ИD	20
2-Chloroethylvinyl ether	ND	ND	50
Bromoform	ND	ND	20
4-Methyl-2-pentanone	מא	ND	50
2-Hexanone	ND	ND	50
Tetrachloroethene	ND	ND	20
1,1,2,2-Tetrachloroethane	ND	ND	20
Toluene	1,000.	ND	20
Chlorobenzene	מא	ИD	20
Ethylbenzene	1,700.	ИD	20
Styrene	980.	ND	20
Xylenes, Total	1,100.	ND	20



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Laboratory Report

TERRA TECH LABS, INC.

16371 Gothard Street, Unit "G" Huntington Beach, CA 92647

ATTN: MR. GERARD HERRO

Project: 1095-2

Analysis No.: G-8926802-001/001

Date Sampled: 22-SEP-1989

Date Sample Rec'd: 25-SEP-1989

Sample Type: SOLID

QA/QC Summary

Date	rarameter (Method)	QC Type	Average Spike Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
29-SEP-1989	1,1-DICHLOROETHENE (EFA 8240)	L	92	54-134	0.	25
7 3- 281-1383	TKICHLOROETHENE (EPA 8240)	L	9 6	67-124	4.	21
29-SEP-1989	BENZENE (EPA 8240)	L	108	62-126	4.	24
29-SEP-1989	TOLUENE (EPA 8240)	L	103	66-126	2.	22
29 CEP 1989	CHLOROBENZENE (EPA 0240)	L	107	G7-124	2.	2 2

M - Matrix Spike

L = Laboratory Control Sample Spike



GAS CHROMATOGRAPHY - RESULTS

ATI I.D.: 00120101

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90 DATE RECEIVED PROJECT = : 89007 : 01/17/90 PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90 CLIENT I.D. : COMP.S1 DATE ANALYZED : 01/20/90 SAMPLE MATRIX : SOIL UNITS : MG/KG

COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	
BROMOCHLOROMETHANE (%)	105
TRIFLUOROTOLUENE (%)	102

ATI I.D. : 00120102

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

DATE SAMPLED : 01/16/90 DATE RECEIVED : 01/17/90 CLIENT : US TECHNICAL ENV. CONSULTING PROJECT # : 89007 PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90 DATE ANALYZED : 01/20/90 CLIENT I.D. : COMP.S2 SAMPLE MATRIX : SOIL UNITS

: MG/KG

COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	·
BROMOCHLOROMETHANE (%)	98
TRIFLUOROTOLUENE (%)	102

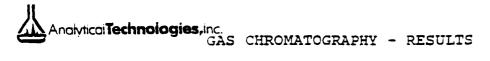
ATI I.D. : 00120103

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

CLIENT : US TECHNICAL ENV. CONSULTING DATE SAMPLED : 01/16/90
PROJECT : 89007 DATE RECEIVED : 01/17/90
PROJECT NAME : TORRANCE DATE EXTRACTED : 01/17/90
CLIENT I.D. : COMP.S3 DATE ANALYZED : 01/23/90
SAMPLE MATRIX : SOIL UNITS : MG/KG

• COMPOUNDS	RESULTS

BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLORIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	
PROMOCULOROMENTANE (%)	• • •
BROMOCHLOROMETHANE (%)	109
TRIFLUOROTOLUENE (%)	116



ATI I.D. : 00120104

TEST : EPA 8010 (HALOGENATED VOLATILE ORGANICS)

DATE SAMPLED : 01/16/90 : US TECHNICAL ENV. CONSULTING CLIENT PROJECT = : 39007 PROJECT NAME : TORRANCE DATE RECEIVED : 01/17/90 DATE EXTRACTED : 01/17/90 DATE ANALYZED : 01/20/90 CLIENT I.D. : COMP.S4 SAMPLE MATRIX : SOIL UNITS : MG/KG

COMPOUNDS	RESULTS
BROMODICHLOROMETHANE	<0.010
BROMOFORM	<0.010
BROMOMETHANE	<0.010
CARBON TETRACHLCRIDE	<0.010
CHLOROBENZENE	<0.025
CHLOROETHANE	<0.010
CHLOROFORM	<0.010
CHLOROMETHANE	<0.010
DIBROMOCHLOROMETHANE	<0.010
1,2-DICHLOROBENZENE	<0.025
1,3-DICHLOROBENZENE	<0.025
1,4-DICHLOROBENZENE	<0.025
DICHLORODIFLUOROMETHANE	<0.010
1,1-DICHLOROETHANE	<0.010
1,2-DICHLOROETHANE	<0.010
1,1-DICHLOROETHENE	<0.010
1,2-DICHLOROETHENE (TOTAL)	<0.010
1,2-DICHLOROPROPANE	<0.010
CIS-1,3-DICHLOROPROPENE	<0.010
TRANS-1,3-DICHLOROPROPENE	<0.010
METHYLENE CHLORIDE	<0.10
1,1,2,2-TETRACHLOROETHANE	<0.010
TETRACHLOROETHENE	<0.010
1,1,1-TRICHLOROETHANE	<0.010
1,1,2-TRICHLOROETHANE	<0.010
TRICHLOROETHENE	<0.010
TRICHLOROFLUOROMETHANE	<0.10
VINYL CHLORIDE	<0.010
SURROGATE PERCENT RECOVERIES	
BROMOCHLOROMETHANE (%)	94
TRIFLUOROTOLUENE (%)	100